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PRODUCT CATALOG



One-Stop Solution for Nucleic Acid Chemistry
and Fluorescent Dyes



Shenzhen U-genes
Biotechnology Co., Ltd.

SPECIALITY • QUALITY • TECHNOLOGY



Our Mission

U-genes' mission is rooted in contributing to the advancement of scientific discovery and healthcare through our unwavering commitment to excellence and the provision of high-quality, state-of-the-art products and services. Committed to staying at the forefront of innovation, U-genes is dedicated to providing a continuous stream of updated raw materials to global research institutions, biopharmaceutical companies, and diagnostic enterprises.



Our Company

At U-genes, we operate as a comprehensive R&D and production service platform, catering to the global biomedical industry's evolving needs. Our primary focus lies in delivering cutting-edge solutions, with a product portfolio spanning from modified nucleosides and nucleotides, to nucleoside pharmaceutical intermediates and organic fluorescent dyes. Leveraging our team's profound knowledge and skills, we also offer catalog compounds and custom synthetic products to meet customer needs.



One-Stop Solution
for Fluorescent Dyes
and Nucleic Acid
Chemistry.

Our Expertise



Comprehensive Product Line

- Covering almost all fluorescent dyes and modified nucleotides
- Challenging-to-synthesize molecule



High Purity & Reactivity

- Unique synthesis and purification platform
- Quality Assurance



Custom Synthesis

- Co-development with our insights and know-how
- Speed and flexibility
- Very high success rates
- Attractive cost schemes
- Excellent track record



Innovative Platform

- Quick update with the current trends
- Innovative technologies in progress such as high loading density CPG based on porous glass



U-genes

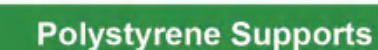
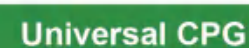
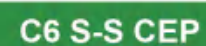
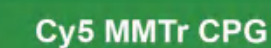
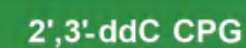
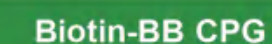
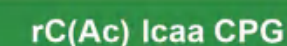
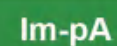
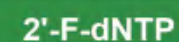


SPECIALITY

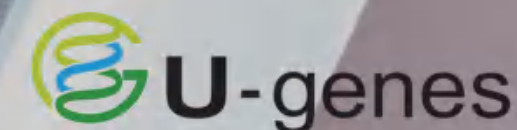
TECHNOLOGY



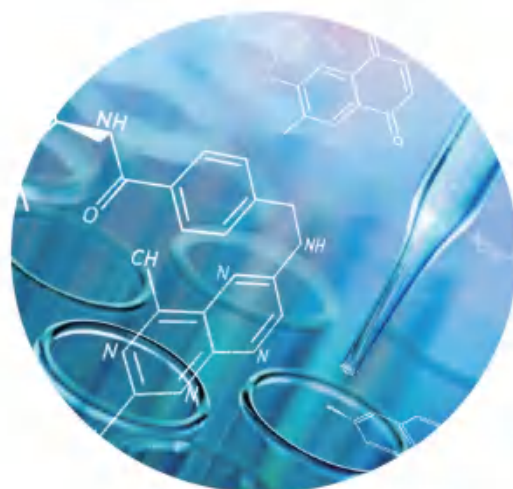
QUALITY



Custom Synthesis Expertise at U-genes



In our pursuit of facilitating breakthroughs in high-sensitivity detection and oligonucleotide synthesis, Shenzhen U-genes Biotechnology Co., Ltd. takes pride in offering unparalleled custom synthesis services tailored to meet the diverse needs of our esteemed clientele.



Custom Fluorescent Dyes Synthesis

Enabling the development of user-friendly and highly efficient fluorescent dyes, our custom synthesis services encompass a spectrum of modifications, including:

- Activating group modifications
- Backbone modifications
- Hydrophilicity modifications

Our commitment to innovation ensures that we deliver customized solutions for high-sensitivity detection, empowering our customers with the tools they need to excel in their respective fields.

Custom Nucleotide/Nucleoside Synthesis

Utilize our expertise and wide range of modifications and conjugates to provide virtually limitless possibilities for oligonucleotide synthesis. We offer more than 100 modifications and nearly 40 million potential synthesis combinations. Our extensive options for modifications are unparalleled in the industry and include:

- Modified & inverted bases
- Sugar modification
- Phosphates modification
- Phosphoramidites modification
- CPG modification
- Linkers
- Biotin / fluorescent dye labels
- Dimer & trimers

At Shenzhen U-genes, we empower researchers and innovators with the flexibility they need to explore novel avenues in nucleotide and nucleoside synthesis.

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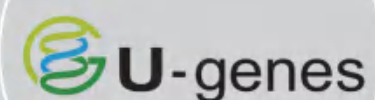
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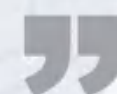
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Fluorescent Dyes

UGO Series
UGA Series
Conventional dyes
Quencher

Fluorescent dyes, also known as fluorophores, stand as indispensable tools for researchers, unlocking the ability to visualize specific biological molecules through fluorescence microscopy. In applications ranging from fluorescence microscopy to flow cytometry, fluorescence in situ hybridization (FISH), receptor binding assays, and enzyme assays, these dyes play a pivotal role by being conjugated to target molecules such as antibodies, tag proteins, nucleic acids, and other biomolecules.

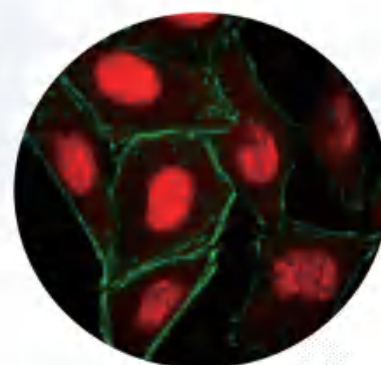


U-genes' Distinctive Fluorescent Dye Offerings

At U-genes, we present a diverse range of Fluorescent dye products, each designed to elevate the precision and efficacy of life science applications. Our commitment to excellence is reflected in the following key advantages:

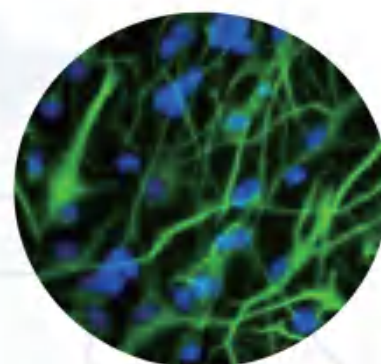
01 Comprehensive Product Range:

Explore our extensive product line, including UGO, UGA, conventional fluorescent dyes, and quenchers. Continuously innovating to meet evolving needs, our commitment to delivering high-quality products ensures researchers can consistently find the perfect solution within our comprehensive range.



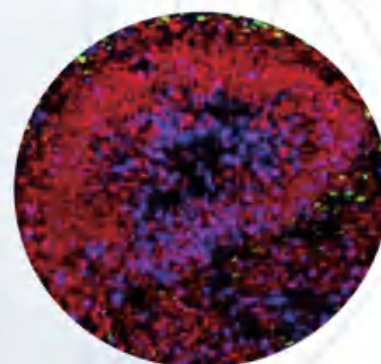
02 Exceptional Purity Exceeding 95%:

Employing advanced production techniques and rigorous quality control measures, we guarantee a purity level exceeding 95% in our products. This commitment not only signifies superior quality and efficacy but also minimizes potential risks during usage, enhancing the overall customer experience.



03 Unparalleled Stability:

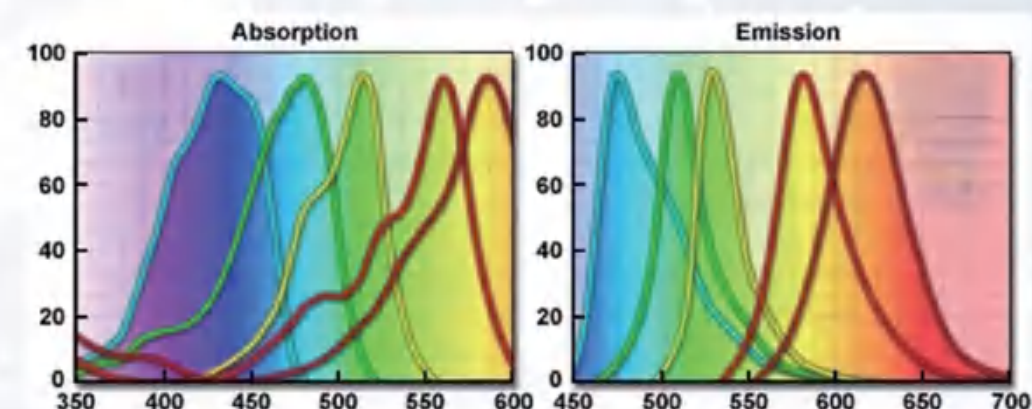
Rigorously selecting raw materials and implementing meticulous production process controls, our fluorescent dye products exhibit remarkable stability throughout storage, transportation, and utilization. This unwavering stability alleviates concerns about any adverse impact on production, assuring customers of reliable performance.



04

Remarkable Quantum Yield: Our products boast a remarkable conversion efficiency, ensuring higher cost-effectiveness for customers. Through continuous optimization of production processes, we strive to enhance the quantum yield of our offerings, delivering superior performance to end-users.

At U-genes, our fluorescent dye solutions illuminate the path for researchers, providing not just products, but a commitment to precision, purity, stability, and efficiency that propels scientific endeavors to new heights.



UGO series

Introducing the UGO series, designed to meet and exceed the demands of modern fluorescent technologies. UGO dyes, distinguished by their rigid structure and immunity to cis-trans isomerization, present a breakthrough in marker technology, exhibiting an extraordinarily low spectral shift when coupled.

1. Rigidity and Isomerization Resistance:

UGO dyes, derived from coumarin, rhodamine, oxazine, and other compounds, feature a rigid structure that eliminates cis-trans isomerization. This unique characteristic ensures minimal spectral shift upon coupling, guaranteeing precision in fluorescent applications.



2. Ideal for Microarray Applications:

Unrivalled photostability and heightened resistance to ozone degradation make UGO dyes the ideal choice for microarray applications, where reliability and longevity are paramount.

3. Extended Fluorescence Signal Lifetimes:

UGO dyes showcase extended fluorescence signal lifetimes ranging from 0.6 to 4.1 nanoseconds in aqueous solutions. This longevity facilitates their measurement using pulsed laser excitation and time-gated detection systems, effectively minimizing interference from fluorophores with shorter lifetimes, background autofluorescence, as well as Rayleigh and Raman light scattering. This improvement in overall sensitivity enhances the precision of fluorescent technologies.

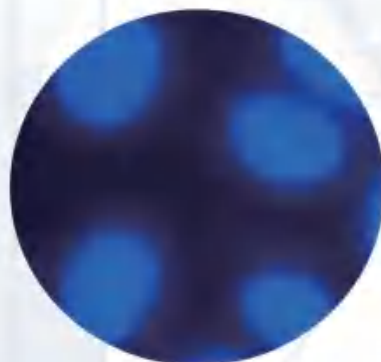
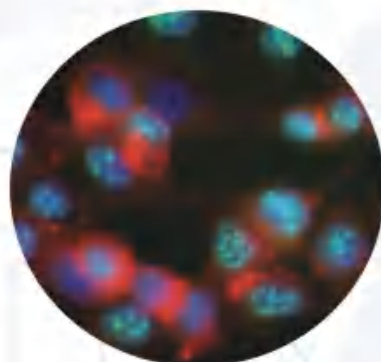
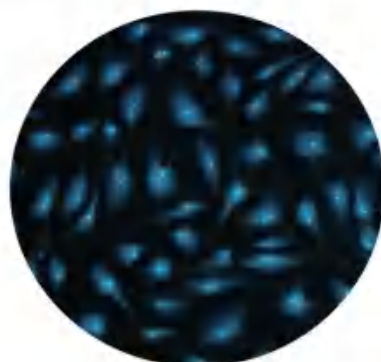
4. Reduced Background Interference:

With several UGO dyes featuring excitation wavelengths exceeding 600 nm, background fluorescence from samples, as well as Rayleigh and Raman scattering, is significantly reduced. This contributes to heightened signal clarity and improved sensitivity in a variety of applications.

5. Versatility in Excitation Sources:

Boasting excitation signal maxima ranging from 390 to 740 nm and a well-defined Stokes shift separation, UGO dyes cater to diverse excitation light sources. This versatility ensures compatibility with common excitation sources, offering researchers flexibility in their experimental setups.

In essence, the UGO series emerges as a beacon of precision, offering not just an alternative to existing dyes but a new standard in fluorescent marker technology. Elevate your research with UGenes' UGO series and experience fluorescence with unparalleled clarity and reliability.



Specification of UGO series

Name	$\lambda_{\text{max(abs)}}$ (nm)	$\lambda_{\text{max(em)}}$ (nm)	Color	ϵ_{max} (M ⁻¹ cm ⁻¹)	Φ	τ (ns)	CF ₂₆₀	CF ₂₈₀
UGO 390	390	479	Blue	24000	0.90	5	0.46	0.09
UGO 425	436	484	Blue	45000	0.90	3.6	0.19	0.17
UGO 465	453	508	Blue/Green	75000	0.75	5	1.09	0.48
UGO 488	501	523	Green/Yellow	90000	0.80	4	0.22	0.09
UGO 495	495	527	Green/Yellow	80000	0.20	1	0.45	0.37
UGO 514	511	533	Yellow	115000	0.85	3.9	0.21	0.07
UGO 520	516	538	Yellow	110000	0.90	3.6	0.16	0.20
UGO 532	532	553	Yellow/Orange	115000	0.90	3.8	0.20	0.09
UGO Rho6G	535	560	Yellow/Orange	115000	0.94	4.1	0.19	0.16
UGO 550	554	576	Orange	120000	0.80	3.6	0.23	0.10
UGO 565	563	592	Red	120000	0.90	4	0.27	0.12
UGO Rho3B	564	592	Red	120000	0.50	1.5	0.27	0.13
UGO Rho11	572	595	Red	120000	0.80	4	0.26	0.10
UGO Rho12	576	601	Red	120000	0.80	4	0.26	0.09
UGO Thio12	579	609	Red	110000	0.15	2	0.11	0.37
UGO Rho101	586	610	Red	120000	0.80	4.2	0.18	0.17
UGO 590	594	624	Red	120000	0.80	3.7	0.39	0.43
UGO Rho13	600	625	Red	120000	0.80	3.9	0.22	0.50
UGO 594	601	627	Red	120000	0.85	3.9	0.28	0.43
UGO 610	615	634	Red	150000	0.7	3.2	0.03	0.06
UGO 620	619	643	Far-red	120000	0.50	2.9	0.04	0.06
UGO Rho14	625	646	Far-red	120000	0.80	3.7	0.26	0.47
UGO 633	629	657	Far-red	130000	0.64	3.3	0.04	0.05
UGO 647	645	669	Far-red	120000	0.20	2.4	0.08	0.04
UGO 647N	644	669	Far-red	150000	0.65	3.5	0.04	0.03
UGO 655	663	684	Far-red	125000	0.30	1.8	0.24	0.08
UGO Oxa12	663	684	Far-red	125000	0.30	1.8	0.32	0.12
UGO 665	663	684	Far-red	160000	0.60	2.9	0.07	0.06
UGO 680	680	700	Near-IR	125000	0.30	1.7	0.30	0.17
UGO 700	700	719	Near-IR	120000	0.25	1.6	0.26	0.41
UGO 725	725	752	Near-IR	120000	0.10	0.5	0.08	0.06
UGO 740	740	764	Near-IR	120000	0.10	0.6	0.07	0.07

Explore customization with UGO series fluorescent dyes, featuring modifications like NHS-ester, biotin, azide, and more outlined in table below. Experience exceptional purity exceeding 95% (HPLC) and an impressive 97% (³¹P-NMR), ensuring reliability and accuracy in your research.

The modifications and catalog ID of UGO series products

Name	Carboxy	NHS-ester	3'CPG	5'-phosphoramidite	Biotin	Maleimide	azide
UGO 390	110101	110102	110103	—	—	—	—
UGO 425	110201	110202	110203	—	110205	110206	110207
UGO 465	110301	110302	110303	—	110305	—	110307
UGO 488	110401	110402	110403	—	—	—	110407
UGO 495	110501	110502	110503	—	110505	110506	110507
UGO 514	110601	110602	110603	—	110605	110606	110607
UGO 520	110701	110702	110703	—	110705	110706	110707
UGO 532	110801	110802	110803	—	110805	110806	110807
UGO Rho6G	110901	110902	110903	—	110905	110906	110907
UGO 550	111001	111002	111003	—	111005	111006	111007
UGO 565	111101	111102	111103	—	111105	111106	111107
UGO Rho3B	111201	111202	111203	—	—	111206	111207
UGO Rho11	111301	111302	111303	—	111305	111306	111307
UGO Rho12	111401	111402	111403	111404	—	111406	111407
UGO Thio12	111501	111502	111503	111504	111505	111506	111507
UGO Rho101	111601	111602	111603	111604	111605	111606	111607
UGO 590	111701	111702	111703	111704	111705	111706	111707
UGO Rho13	111801	111802	111803	111804	111805	111806	—
UGO 594	111901	111902	111903	111904	111905	111906	—
UGO 610	112001	112002	112003	112004	112005	—	—
UGO 620	112101	112102	112103	112104	112105	—	—
UGO Rho14	112201	112202	112203	112204	112205	—	—
UGO 633	112301	112302	112303	112304	112305	—	—
UGO 647	112401	112402	112403	112404	112405	—	—
UGO 647N	112501	112502	112503	112504	112505	—	—
UGO 655	112601	112602	112603	112604	112605	—	—
UGO Oxa12	112701	112702	112703	112704	—	—	—
UGO 665	112801	112802	112803	112804	—	—	—
UGO 680	112901	112902	112903	112904	—	112906	—
UGO 700	113001	113002	113003	113004	—	—	—
UGO 725	113101	113102	113103	113104	—	—	—
UGO 740	113201	113202	—	113204	—	—	—

*UGO dyes are alternatives to ATTO dyes.

UGA series

Introducing the UGA series, a revolutionary advancement in fluorescent labeling reagents that encompasses a range of exceptional dyes across the near ultraviolet, visible, and near-infrared spectrum. UGA stands out with heightened luminescence brightness, superior sensitivity, and reduced background interference. Notably, UGA offers enhanced stability to pH variations and prolonged luminescence, making it an ideal choice for photographic applications.

Key Advantages of UGA Series:

1. Luminescence Brilliance:

UGA series dyes shine with unparalleled brightness, ensuring vivid and clear imaging in various applications.

2. Heightened Sensitivity:

With superior sensitivity, UGA dyes enhance the detection limits, providing researchers with enhanced precision in their experiments.

3. Reduced Background Interference:

UGA's lower background noise contributes to sharper and more accurate imaging, crucial in fluorescence microscopy, cell biology, and molecular biology applications.

4. pH Stability and Extended Luminescence:

UGA series dyes maintain stability across pH ranges, ensuring reliable performance in diverse experimental conditions. Additionally, their prolonged luminescence supports extended imaging sessions, offering flexibility in photographic applications.

5. Versatile Applications:

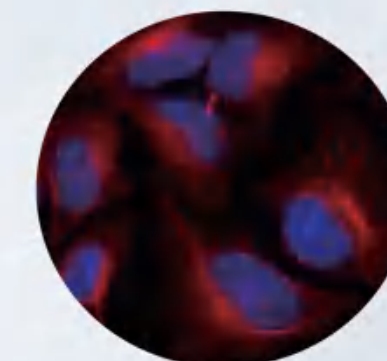
Utilized as biomolecule, cell, and tissue markers, UGA fluorescent dyes find applications across a spectrum of fields, including fluorescence microscopy, cell biology, molecular biology, biotechnology, and various research endeavors.

Experience excellence in fluorescence imaging with UGA series—setting a new standard in brightness, sensitivity, and stability for diverse research applications.

Specification of UGA series

Name	$\lambda_{\text{max(abs)}}$ (nm)	$\lambda_{\text{max(em)}}$ (nm)	Color	ϵ_{max} (M ⁻¹ cm ⁻¹)	Φ	τ (ns)	CF ₂₆₀	CF ₂₈₀
UGA 350	346	442	Blue	19000	0.73		0.19	0.25
UGA 405	401	421	Blue	34000			0.70	0.23
UGA 430	433	541	Green/Yellow	16000	0.23		0.28	ND
UGA 488	494	517	Green	73000	0.92	4.1	0.11	0.30
UGA 532	532	553	Yellow	81000	0.61		0.09	0.24
UGA 546	556	573	Orange	104000			0.12	0.21
UGA 555	555	565	Orange	150000	0.10		0.08	0.08
UGA 568	578	603	Orange/Red	91000	0.69	3.6	0.46	0.45
UGA 594	590	617	Red	73000	0.66	3.9	0.56	0.43
UGA 610	612	628	Red	138000			0.44	0.43
UGA 633	632	647	Far Red	239000	0.29		0.55	ND
UGA 647	650	665	Far Red	239000	0.33		0.03	0.00
UGA 660	663	690	Far Red	132000			0.10	0.00
UGA 680	679	702	Near-IR	184000	0.36		0.05	0.00
UGA 700	702	723	Near-IR	192000			0.07	0.00
UGA 750	749	775	Near-IR	240000			0.04	0.00
UGA 790	784	814	Near-IR	270000			0.08	0.09

Customize your research with the UGA series, offering a diverse range of modifications outlined in the table below, including carboxy, NHS-ester, maleimide, and more. Elevate your experiments with UGA's superior purity, surpassing 95% as confirmed by High-Performance Liquid Chromatography (HPLC) and an impressive 97% through Phosphorus Nuclear Magnetic Resonance (³¹P-NMR).



The modifications and catalog ID of UGA series products

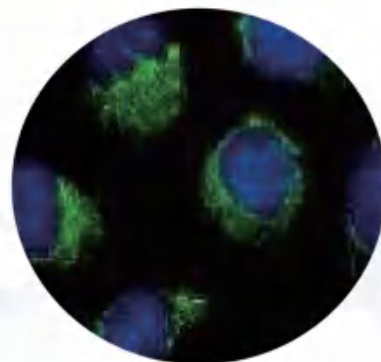
Name	Carboxy	NHS-ester	3'CPG	5'-phosphoramidite	dT	Biotin	Maleimide
UGA 350	120101	120102	120103	120104	120105	120106	120107
UGA 405	120201	120202	120203	120204	120205	120206	120207
UGA 430	120301	120302	120303	120304	120305	120306	120307
UGA 488	120401	120402	120403	120404	120405	120406	120407
UGA 532	120501	120502	120503	120504	120505	120506	120507
UGA 546	120601	120602	120603	120604	120605	120606	120607
UGA 555	120701	120702	120703	120704	120705	120706	120707
UGA 568	120801	120802	120803	120804	120805	120806	120807
UGA 594	120901	120902	120903	120904	120905	120906	120907
UGA 610	121001	121002	121003	121004	121005	121006	121007
UGA 633	121101	121102	121103	121104	121105	121106	121107
UGA 647	121201	121202	121203	121204	121205	121206	121207
UGA 660	121301	121302	—	121304	121305	121306	121307
UGA 680	121401	121402	—	121404	121405	121406	121407
UGA 700	121501	121502	—	121504	121505	121506	121507
UGA 750	121601	121602	—	121604	121605	121606	121607
UGA 790	121701	121702	—	121704	121705	121706	121707

*UGA dyes are alternatives to ALEXA FLUOR dyes.

Conventional dyes

Fluorescein Series:

Fluorescein, renowned as the earliest and most cost-effective fluorescent dye, takes center stage in our Fluorescein series. Offering a spectrum of modifications like NHS-ester, 3'-CPG, 5'-phosphoramidite, and more, our Fluorescein compounds cater to diverse chemical functional groups, ensuring flexibility in labeling conditions. With purity levels exceeding 95% (HPLC), our Fluorescein dyes set a reliable standard for your research needs.

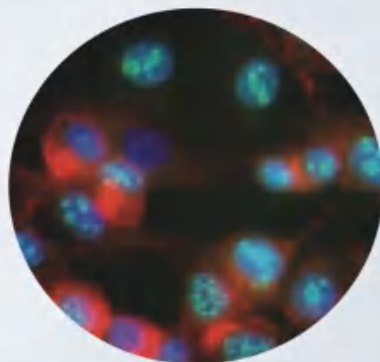


The modifications and catalog ID of Fluorescein dyes

Name	NHS-ester (5mg)	3'-CPG (0.25g)	5' phosphoramidite (0.25g)	dT (0.25g)
Fluorescein	130101	130102	130103	130104
OG488	130201	130202	130203	130204
Pennsylvania green	130301	130302	130303	130304
6-FAM	130401	130402	130403	130404
5-FAM	130501	130502	130503	130504
6-HEX	130601	130602	130603	130604
5-HEX	130701	130702	130703	130704
6-TET	130801	130802	130803	130804
5-TET	130901	130902	130903	130904
6-JOE	131001	131002	131003	131004
5-JOE	131101	131102	131103	131104
6-VIC	131201	131202	131203	131204
5-VIC	131301	131302	131303	131304
FITC	131401	131402	131403	131404
NED	131501	131502	131503	131504
Yakima yellow	131601	131602	131603	131604

Rhodamine Series:

From green to red, the Rhodamine series, featuring the commonly used tetramethyl rhodamine, spans a wide fluorescence spectrum. Enabling multi-color staining, labeling, and tracking in applications such as DNA sequencing and fluorescence immunoassay, Rhodamine proves invaluable in various biological experiments. Modifications including NHS-ester, 3'-CPG, 5'-phosphoramidite, and more are available, with Rhodamine dyes boasting purity levels exceeding 95% (HPLC).

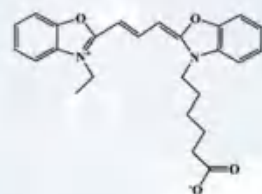


The modifications and catalog ID of Rhodamine dyes

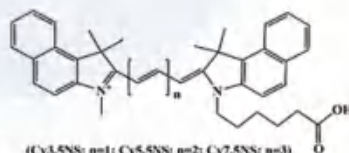
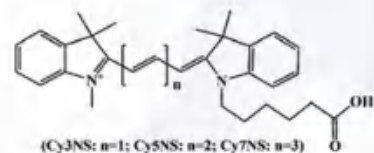
Name	NHS-ester (5mg)	3'-CPG (0.25g)	5' phosphoramidite (0.25g)	dT (0.25g)
Rhod G (Rhod 110)	140101	140102	140103	140104
Rhod 6G	140201	140202	140203	140204
6-TAMRA	140301	140302	140303	140304
Rhod Red	140401	140402	140403	140404
6-ROX	140501	140502	140503	140504
Texas-X Red	140601	140602	140603	140604
SiR	140701	140702	140703	140704
5-TAMRA	140801	140802	140803	140804
5-ROX	140901	140902	140903	140904

Cyanine series:

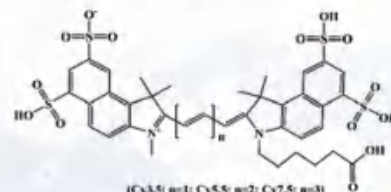
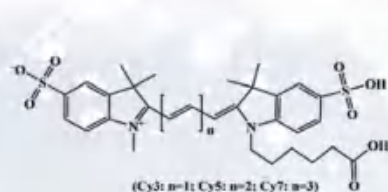
Widely employed in industry and biotechnology, Cyanine compounds surpass FITC and rhodamine in brightness and stability. Covering spectra from ultraviolet to near-infrared, Cyanine dyes offer versatility. Modifications like NHS-ester, 3'-CPG, 5'-phosphoramidite, and more are available, with purity levels exceeding 95% (HPLC) and 97% (^{31}P -NMR). Chemical structures are as follows:



The structure of Cy2



The structure of Cy3, Cy5, Cy7 (left) and Cy3.5, Cy5.5, Cy7.5 (right)



The structure of sulfonated Cy3, Cy5, Cy7 (left) and Cy3.5, Cy5.5, Cy7.5 (right)

The modifications and catalog ID of Cyanine dyes

Name	NHS-ester (5mg)	3'-CPG (0.25g)	5' phosphoramidite (0.25g)	dT (0.25g)
Cy2	150101	150102	150103	150104
Cy3	150201	150202	150203	150204
Sulfonated Cy3	150301	150302	150303	150304
Cy3.5	150401	150402	150403	150404
Sulfonated Cy3.5	150501	150502	150503	150504
Cy5	150601	150602	150603	150604
Sulfonated Cy5	150701	150702	150703	150704
Cy5.5	150801	150802	150803	150804
Sulfonated Cy5.5	150901	150902	150903	150904
Cy7	151001	151002	151003	151004
Sulfonated Cy7	151101	151102	151103	151104
Cy7.5	151201	151202	151203	151204
Sulfonated Cy7.5	151301	151302	151303	151304

Coumarin Series:

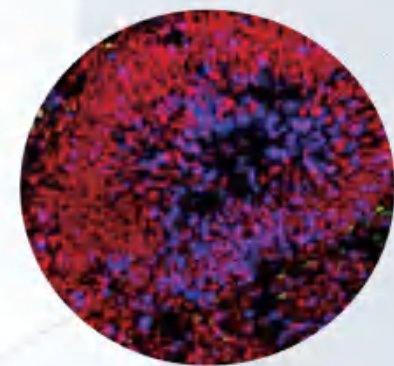
With a benzopyrone structure, Coumarin fluorescent dyes, emitting blue fluorescence, serve as essential components in multicolor fluorescence experiments. Suited for labeling enzyme substrates due to their low cost and small size, Coumarin dyes undergo modifications like NHS-ester, 3'-CPG, 5'-phosphoramidite, ensuring adaptability in experimental setups. Purity levels exceeding 95% (HPLC) attest to the reliability of Coumarin dyes.

The modifications and catalog ID of Coumarin dyes

Name	NHS-ester (5mg)	3'-CPG (0.25g)	5' phosphoramidite (0.25g)	dT (0.25g)
AMCA	160101	160102	160103	160104
Coumarin 343	160201	160202	160203	160204

Quenchers:

Explore a range of quench agents spanning 390 nm to 730 nm in our Quenchers collection, providing essential tools for fluorescence quenching applications. Refer to table below for a comprehensive overview of available options.



The modifications and catalog ID of Quenchers

Name	Quenching Range	NHS-ester (5mg)	3'-CPG (0.25g)	5' phosphoramidite (0.25g)	dT (0.25g)
Eclipse	390-625 nm	170101	170102	170103	170104
UGQuencher-0	430-520 nm	170201	170202	170203	170204
UGQuencher-1	480-580 nm	170301	170302	170303	170304
UGQuencher-2	550-650 nm	170401	170402	170403	170404
UGQuencher-3	620-730 nm	170501	170502	170503	170504
Dabcyl	380-530 nm	170601	170602	170603	170604
UGBBQ 650	550-750 nm	170701	170702	170703	170704
Dual-Quencher		170901	170902	170903	170904

*UGQuencher-0,1,2,3 are alternatives to BHQ-0,1,2,3.

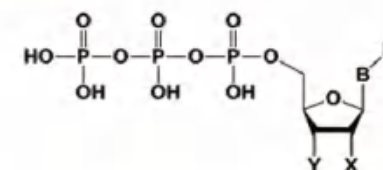
Modified Nucleosides / Nucleotides

Modified nucleosides/nucleotides serve as invaluable building blocks in the synthesis of DNA and RNA, introducing alterations that enhance the stability, functionality, and utility of these genetic materials. This versatility makes them crucial for a myriad of applications.

The strategic incorporation of modified nucleosides optimizes coding sequences, contributing to the suppression of the immune response to synthetic mRNA. This not only reduces toxicity but also improves the translation of the gene, aligning with the quest for precision in genetic engineering and therapeutic applications. These enhancements underscore the pivotal role of modified nucleosides/nucleotides in advancing the fields of molecular biology, medicine, and biotechnology.

Acetyl

Base modified nucleotides



B = Base (A, C, G, U, T, I, X, pU, iso-C, iso-G)

P = Me, F, Cl, Br, I, NH₂, deaza, thio, Ac, Bz, dmf, iBu, PhAc, Pac, Tac, etc.

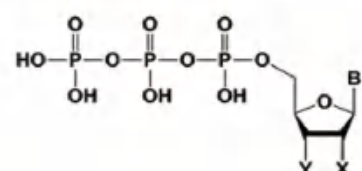
X / Y = H, OH

Catalog ID of selected base modified nucleotides

Name	Catalog ID
5-methyl-cytidine-5'-triphosphate (100mM solution)	201001
Iso-Guanosine-5'-Triphosphate (100mM solution)	201002
5-methoxy-Uridine-5'-triphosphate (100mM solution)	201003
Pseudo-uridine-5'-triphosphate (100mM solution)	201004
N1-methyl-Pseudo-uridine-5'-triphosphate (100mM solution)	201005
ARCA (100mM solution)	201006
6-aminoethyl-isodGTP (100mM solution)	201007
7-deaza-7-(octa-1,7 diynyl)-2'-deoxycytidine triphosphate (100mM solution)	201008
5-Propargylamino-3'-azidomethyl-2'-deoxycytidine-5'-Triphosphate (100mM solution)	201009
5-Propargylamino-3'-azidomethyl-2'-deoxyuridine-5'-Triphosphate (100mM solution)	201010
7-Deaza-7-Propargylamino-3'-azidomethyl-2'-deoxyguanosine-5'-Triphosphate (100mM solution)	201011
7-Deaza-7-Propargylamino-3'-azidomethyl-2'-deoxyadenosine-5'-Triphosphate (100mM solution)	201012
5-Propargylamino-2'-deoxycytidine-5'-Triphosphate (100mM solution)	201013
5-Propargylamino-2'-deoxyuridine-5'-Triphosphate (100mM solution)	201014
7-Deaza-7-Propargylamino-2'-deoxyadenosine-5'-Triphosphate (100mM solution)	201015
7-Deaza-7-Propargylamino-2'-deoxyguanosine-5'-Triphosphate (100mM solution)	201016
5-methyl-2'-Deoxy-isocytidine-5'-Triphosphate (100mM solution)	201017
d5SICSTP (100mM solution)	201018
dMMOTP (100mM solution)	201019
dNaMTP (100mM solution)	201020
5-ethynyl-2'-Deoxycytidine-5'-Triphosphate (100mM solution)	201021
2'-Deoxy-iso-guanosine-5'-Triphosphate (100mM solution)	201022
5-methyl-2'-Deoxycytidine-5'-Triphosphate (100mM solution)	201023
2'-Deoxyinosine-5'-Triphosphate (100mM solution)	201024
7-deaza-2'-Deoxyadenosine-5'-Triphosphate (100mM solution)	201025
7-deaza-2'-Deoxyguanosine-5'-Triphosphate (100mM solution)	201026
2'-deoxyuridine-5'-Triphosphate (100mM solution)	201027

Purity ≥99% by HPLC

Sugar modified nucleotides



B = Base (A, C, G, U, T)

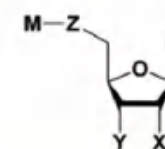
X / Y = H, OH, Fluoro, OMe, OTBDMS, OMOE, O-Propargyl, NH₂, N₃, etc.

Catalog ID of selected sugar modified nucleotides

Name	Catalog ID
2'-O-Methyladenosine-5'-Triphosphate (100mM solution)	202001
2'-O-Methylcytidine-5'-Triphosphate (100mM solution)	202002
2'-O-Methylguanosine-5'-Triphosphate (100mM solution)	202003
2'-O-Methyluridine-5'-Triphosphate (100mM solution)	202004
2'-Fluoro-2'-deoxyadenosine-5'-Triphosphate (100mM solution)	202005
2'-Fluoro-2'-deoxycytidine-5'-Triphosphate (100mM solution)	202006
2'-Fluoro-2'-deoxyguanosine-5'-Triphosphate (100mM solution)	202007
2'-Fluoro-2'-deoxyuridine-5'-Triphosphate (100mM solution)	202008
2', 3'-diDeoxycytidine-5'-Triphosphate (100mM solution)	202009
2', 3'-diDeoxythymidine-5'-Triphosphate (100mM solution)	202010
2', 3'-diDeoxyguanosine-5'-Triphosphate (100mM solution)	202011
2', 3'-diDeoxyadenosine-5'-Triphosphate (100mM solution)	202012
3'-acetate-2'-Deoxythymidine-5'-Triphosphate (100mM solution)	202013
3'-thiophosphat-2'-Deoxythymidine-5'-Triphosphate (100mM solution)	202014
3'-phosphat-2'-Deoxythymidine-5'-Triphosphate (100mM solution)	202015
3'-azidomethyl-2'-Deoxycytidine-5'-Triphosphate (100mM solution)	202016
3'-azidomethyl-2'-Deoxythymidine-5'-Triphosphate (100mM solution)	202017
3'-azidomethyl-2'-Deoxyadenosine-5'-Triphosphate (100mM solution)	202018
3'-azidomethyl-2'-Deoxyguanosine-5'-Triphosphate (100mM solution)	202019
5-Propargylamino-3'-azidomethyl-2'-deoxycytidine-5'-Triphosphate (100mM solution)	202020
5-Propargylamino-3'-azidomethyl-2'-deoxyuridine-5'-Triphosphate (100mM solution)	202021
7-Deaza-7-Propargylamino-3'-azidomethyl-2'-deoxyguanosine-5'-Triphosphate (100mM solution)	202022
7-Deaza-7-Propargylamino-3'-azidomethyl-2'-deoxyadenosine-5'-Triphosphate (100mM solution)	202023

Purity ≥99% by HPLC

Phosphate modified nucleotides



B = Base (A, C, G, U, I, T)

X / Y = H, OH

Z = MP, DP, TP, IM, etc.

M = null, γ-methyl, γ-benzyl, γ-ANS, α-thio, γ-Fluoro, ε-Fluoro, α-thio-γ-amino, amino-PEG3, 6-aminohexyl, etc.

Catalog ID of selected phosphate modified nucleotides

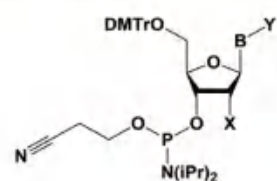
Name	Catalog ID
γ-methyl-2'-Deoxythymidine-5'-Triphosphate	203001
γ-benzyl-2'-Deoxythymidine-5'-Triphosphate	203002
γ-ANS-2'-Deoxythymidine-5'-Triphosphate	203003
α-thio-2'-Deoxythymidine-5'-Triphosphate	203004
γ-Fluoro-2'-Deoxythymidine-5'-Triphosphate	203005
ε-Fluoro-2'-Deoxythymidine-5'-tetrphosphate	203006
α-thio-γ-amino-2'-Deoxythymidine-5'-Triphosphat	203007
Aminohexyl-C6-dC6P	203008

Purity ≥99% by HPLC

Phosphoramidites modified nucleosides

Phosphoramidites, distinguished by their heightened reactivity towards nucleophiles catalyzed by weak acids like triethylammonium chloride or 1H-tetrazole, are pivotal in nucleoside modification. In these reactions, the NR₂ moiety is seamlessly replaced by incoming nucleophiles. Our nucleoside phosphoramidites undergo meticulous manufacturing and packaging, ensuring optimal performance on commercial oligonucleotide synthesizers.

Each batch is accompanied by a Certificate of Analysis (COA) and Specification (Spec.), providing comprehensive insights from our quality control testing. The purities of our phosphoramidite-modified nucleosides exceed an impressive 99% (HPLC). And the moisture content maintained at less than 0.3% (NMR). This commitment to precision and quality underscores our dedication to advancing synthesis technologies and ensuring reliable outcomes in diverse applications.



B = Base (A, C, G, U, pU, I, T, abasic)

X = H, Fluoro, OMe, OTBDMS, OMOE, O-Propargyl, TOM, PivOM, etc.

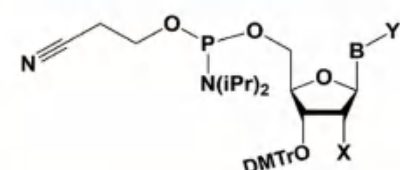
Y = Null, Me, NH₂, Ac, Bz, dmf, iBu, PhAc, Pac, Tac, etc.

Catalog ID of normal/modified Phosphoramidite

Name	Catalog ID
DMT-dA(Bz)-CE Phosphoramidite	204001
DMT-dA(dma)-CE Phosphoramidite	204002
DMT-dG(iBu)-CE Phosphoramidite	204003
DMT-dG(dmf)-CE Phosphoramidite	204004
5-Me-DMT-dC(Bz)-CE Phosphoramidite	204005

Name	Catalog ID
5-Me-DMT-dC(Ac)-CE Phosphoramidite	204006
N ⁶ -Me-DMT-dA-CE Phosphoramidite	204007
DMT-dT-CE Phosphoramidite	204008
DMT-dI-CE Phosphoramidite	204009
DMT-dU-CE Phosphoramidite	204010
DMT-dC(Bz)-CE Phosphoramidite	204011
DMT-dC(Ac)-CE Phosphoramidite	204012
2'-O-TBDMS-A(Bz)-CE Phosphoramidite	204013
2'-O-TBDMS-C(Bz)-CE Phosphoramidite	204014
2'-O-TBDMS-C(Ac)-CE Phosphoramidite	204015
2'-O-TBDMS-G(iBu)-CE Phosphoramidite	204016
2'-O-TBDMS-G(dmf)-CE Phosphoramidite	204017
2'-O-TBDMS-U-CE Phosphoramidite	204018
2'-O-TBDMS-I-CE Phosphoramidite	204019
DMT-2'-F-dA(Bz)-CE Phosphoramidite	204020
DMT-2'-F-dG(iBu)-CE Phosphoramidite	204021
DMT-2'-F-dG(dmf)-CE Phosphoramidite	204022
DMT-2'-F-dC(Bz)-CE Phosphoramidite	204023
DMT-2'-F-dC(Ac)-CE Phosphoramidite	204024
DMT-2'-F-dU-CE Phosphoramidite	204025
DMT-2'-F-dI-CE Phosphoramidite	204026
DMT-2'-O-Me-dG(iBu)-CE Phosphoramidite	204027
DMT-2'-O-Me-dG(dmf)-CE Phosphoramidite	204028
DMT-2'-O-Me-dC(Bz)-CE Phosphoramidite	204029
DMT-2'-O-Me-dU-CE Phosphoramidite	204030
DMT-2'-O-Me-dI-CE Phosphoramidite	204031
5-Me-DMT-2'-O-Me-dC(Bz)-CE Phosphoramidite	204032
5-Me-DMT-2'-O-Me-dC(Ac)-CE Phosphoramidite	204033
5-Me-DMT-2'-O-Me-dU-CE Phosphoramidite	204034
DMT-2'-O-MOE-dA(Bz)-CE Phosphoramidite	204035
DMT-2'-O-MOE-dG(iBu)-CE Phosphoramidite	204036
5-Me-DMT-2'-O-MOE-dC(Bz)-CE Phosphoramidite	204037
5-Me-DMT-2'-O-MOE-dC(Ac)-CE Phosphoramidite	204038
5-Me-DMT-2'-O-MOE-dU-CE Phosphoramidite	204039

Name	Catalog ID
2'-OMe-rA(N-Bz) CEP	204040
2'-OMe-rC(N-Ac) CEP	204041
2'-OMe-rG(N-Ac) CEP	204042
MOE-C	204043
Thymidine-DMTr-3'-CEP (DMTr-T-CEP)	204044
5'-O-Methyl-deoxyadenosine (N-Bz)-DMTr-CEP	204045
5'-O-Methyl-deoxycytidine (N-Bz)-DMTr-CEP	204046
5'-O-Methyl-deoxyguanosine (N-iBu)-DMTr-CEP	204047
5'-O-Methyl-thymidine-DMTr-CEP	204048
8-OXO-dG(N-dmf)-DMTr-CEP	204049
7-deaza-dG-CEP	204050
DMT-PPG(dmf) CEP	204051
DMT-LocG(iBu) CEP	204052
rG(Ac) CEP	204053
iOctdU CEP	204054



B = Base (A, C, G, U, pU, I, T, abasic)
X = H, Fluoro, OMe, OTBDMS, OMOE, O-Propargyl, TOM, PivOM, etc.
Y = Null, Me, NH₂, Ac, Bz, dmf, iBu, PhAc, Pac, Tac, etc.

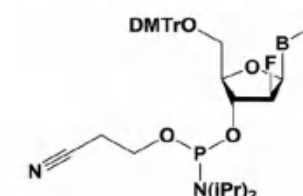
Catalog ID of 5'-Phosphoramidite

Name	Catalog ID
Deoxyadenosine (N -Bz)-DMTr-5'-CEP	204201
Deoxyadenosine (N -PAC)-DMTr-5'-CEP	204202
Deoxycytidine (N -Ac)-DMTr-5'-CEP	204203
Deoxycytidine (N -Bz)-DMTr-5'-CEP	204204
Deoxyguanosine (N -DMF)-DMTr-5'-CEP	204205
Deoxyguanosine (N -iBu)-DMTr-5'-CEP	204206
Thymidine-DMTr-5'-CEP	204207
2',3'-Dideoxyadenosine (N -Bz)-DMTr-5'-CEP	204208
2',3'-Dideoxycytidine (N -Bz)-DMTr-5'-CEP	204209
2',3'-Dideoxyguanosine (N -iBu)-DMTr-5'-CEP	204210
2',3'-Dideoxythymidine-DMTr-5'-CEP	204211

Catalog ID of 2'-Phosphoramidite

Name	Catalog ID
3'-O-DMTr-α-L-threofuranosy-G(dmf)-2'-CE Phosphoramidite	204301
3'-O-DMTr-α-L-threofuranosy-G(iBu)-2'-CE Phosphoramidite	204302

FANA Phosphoramidite

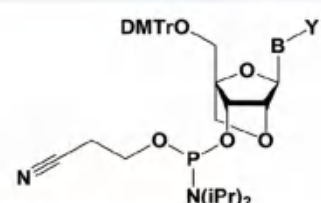


B = Base (A, C, G, U)
Y = Null, Ac, Bz, iBu, etc.

Catalog ID of FANA Phosphoramidite

Name	Catalog ID
2'-F-dT-ANA-3'-CE-Phosphoramidite (White, off-white to light yellow powder)	205001
2'-F-dU-ANA-CE-Phosphoramidite (White to off white powder)	205002
2'-F-dC(Ac)-ANA-CE-Phosphoramidite (White to off white powder)	205003
2'-F-dG(iBu)-ANA-CE-Phosphoramidite (White to off white powder)	205004
2'-F-dA(Bz)-ANA-CE-Phosphoramidite (White to off white powder)	205005

2'-O-4'-C-Locked Phosphoramidite

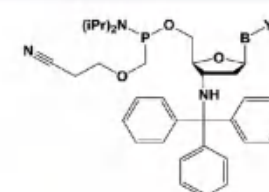


B = Base (A, C, G, U, T)
Y = Null, Ac, Bz, dmf, iBu, PhAc, Pac, Tac, etc.

Catalog ID of 2'-O-4'-C-Locked Phosphoramidite

Name	Catalog ID
2'-O-4'-C-Locked-A(Bz)-CE Phosphoramidite (Off-white to yellow powder)	206001
2'-O-4'-C-Locked-5-Me-C(Bz)-CE Phosphoramidite (Off-white to yellow powder)	206002
2'-O-4'-C-Locked-G(dmf)-CE Phosphoramidite (Off-white to yellow powder)	206003
2'-O-4'-C-Locked-T-CE Phosphoramidite (Off-white to yellow powder)	206004

3'-TrNH Phosphoramidite

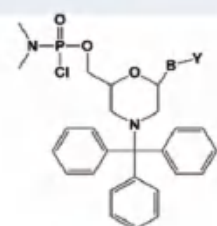


B = Base (A, C, G, T)
Y = Null, Ac, Bz, dmf, iBu, etc.

Catalog ID of 3'-TrNH Phosphoramidite

Name	Catalog ID
3'-NH-Tr-2',3'-ddT-5'-CE-Phosphoramidite (Off-white to yellow powder)	208001
3'-NH-Tr-2',3'-ddG(iBu)-5'-CE-Phosphoramidite (Off-white to yellow powder)	208002
3'-NH-Tr-2',3'-ddC(Bz)-5'-CE-Phosphoramidite (Off-white to yellow powder)	208003
3'-NH-Tr-2',3'-ddA(dmf)-5'-CE-Phosphoramidite (Off-white to yellow powder)	208004

PMO Phosphoramidite

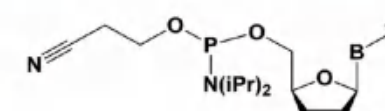


B = Base (A, C, G, T)
Y = Null, Bz, Ac, iBu, dmf, PhAc, Pac, Tac, etc.

Catalog ID of PMO Phosphoramidite

Name	Catalog ID
Morpholino-A(Bz) Subunit (PMO-A(Bz)) (White to faint-yellow powder)	207001
Morpholino-G(PhAc) Subunit (PMO-G(PhAc)) (White to yellow powder)	207002
Morpholino-C(Bz) Subunit (PMO-C(Bz)) (White to faint-yellow powder)	207003
Morpholino-T Subunit (PMO-T) (White to faint-yellow powder)	207004
O ⁶ -NPE-N ² -iBu protected G PMO Monomer (White to faint-yellow powder)	207005

ddN Phosphoramidite



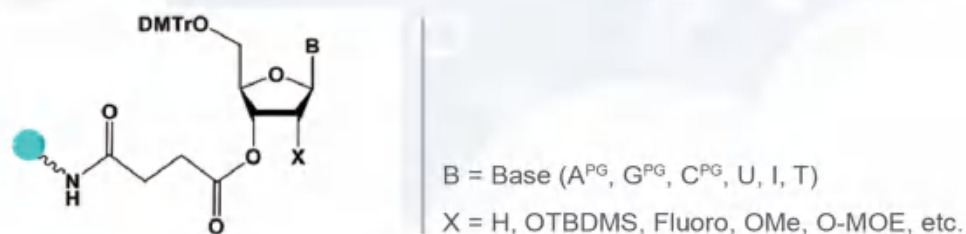
B = Base (A, C, G, T)
Y = Null, Ac, Bz, dmf, iBu, etc.

Catalog ID of 5'-ddN Phosphoramidites

Name	Catalog ID
2',3'-ddG(iBu)-5'-CE-Phosphoramidite	208101
2',3'-ddA(dmf)-5'-CE-Phosphoramidite	208102
2',3'-ddT-5'-CE-Phosphoramidite	208103

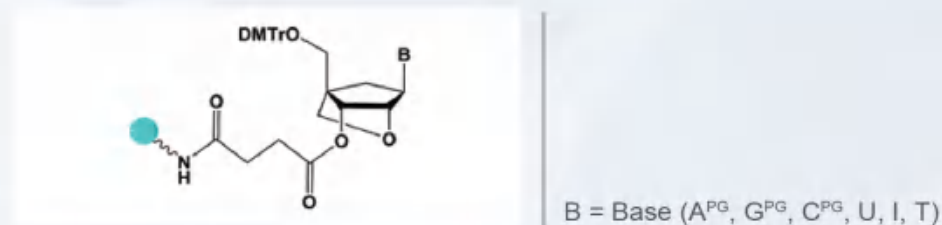
CPG modified nucleosides

Unlocking expanded possibilities for solid-phase oligonucleotide synthesis, our CPG-nucleosides products redefine the landscape of nucleotide modification. With higher loading density, our CPG-nucleosides offer enhanced versatility in crafting oligonucleotide sequences. This elevated loading density ensures efficiency and flexibility in the synthesis process, empowering researchers with advanced tools for tailored oligonucleotide design and construction.



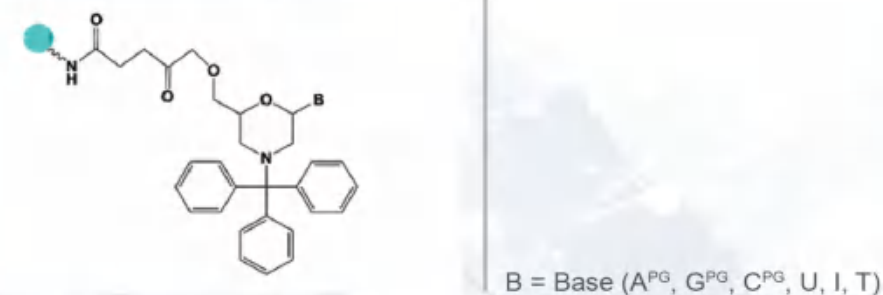
Catalog ID of selected CPG modified nucleosides

Name	Catalog ID	Name	Catalog ID
A(Bz)-DNA-CPG	209001	2'-OMe-A(Ac)-RNA-CPG	209019
G(iBu)-DNA-CPG	209002	2'-OMe-G(iBu)-RNA-CPG	209020
G(DMF)-DNA-CPG	209003	2'-OMe-C(Bz)-RNA-CPG	209021
C(Ac)-DNA-CPG	209004	2'-OMe-mC(Bz)-RNA-CPG	209022
C(Bz)-DNA-CPG	209005	2'-OMe-U-RNA-CPG	209023
T-DNA-CPG	209006	2'-OMe-mU-RNA-CPG	209024
I-DNA-CPG	209007	2'-OMe-I-RNA-CPG	209025
Ac-A(Ac)-RNA-CPG	209008	2'-O-MOE-A(Ac)-RNA-CPG	209026
Ac-G(iBu)-RNA-CPG	209009	2'-O-MOE-G(iBu)-RNA-CPG	209027
Ac-C(Ac)-RNA-CPG	209010	2'-O-MOE-C(Bz)-RNA-CPG	209028
Ac-U-RNA-CPG	209011	2'-O-MOE-mC(Bz)-RNA-CPG	209029
Ac-I-RNA-CPG	209012	2'-O-MOE-U-RNA-CPG	209030
2'-F-A(Ac)-DNA-CPG	209013	2'-O-MOE-mU-RNA-CPG	209031
2'-F-G(iBu)-DNA-CPG	209014	2'-O-MOE-I-RNA-CPG	209032
2'-F-C(Bz)-DNA-CPG	209015	Deoxyuridine-CPG	209033
2'-F-T-DNA-CPG	209016	mC(Bz)-DNA-CPG	209034
2'-F-I-DNA-CPG	209017		
2'-F-U-RNA-CPG	209018		



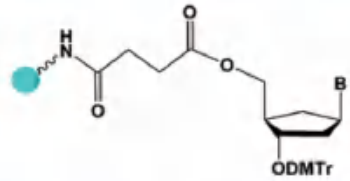
Catalog ID of selected CPG modified LNA nucleosides

Name	Catalog ID
LNA-rA-CPG	209101
LNA-rG-CPG	209102
LNA-rC-CPG	209103
LNA-rU-CPG	209104
LNA-rI-CPG	209105
LNA-rT-CPG	209106



Catalog ID of selected CPG modified PMO nucleosides

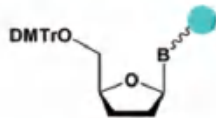
Name	Catalog ID
PMO-A-CPG	209201
PMO-G-CPG	209202
PMO-C-CPG	209203
PMO-U-CPG	209204
PMO-I-CPG	209205
PMO-T-CPG	209206



B = Base (A^{PG}, G^{PG}, C^{PG}, U, I, T)

Catalog ID of selected CPG modified Reverse nucleosides

Name	Catalog ID
Reverse-dA-CPG	209301
Reverse-dG-CPG	209302
Reverse-dC-CPG	209303
Reverse-dU-CPG	209304
Reverse-dI-CPG	209305
Reverse-dT-CPG	209306



B = Base (A, G, C)

Catalog ID of some CPG modified deoxyribonucleosides

Name	Catalog ID
ddA-CPG 1000	209401
ddG-CPG 1000	209402
ddC-CPG 1000	209403
ddA-CPG 2000	209404
ddG-CPG 2000	209405
ddC-CPG 2000	209406

Catalog ID of CPG

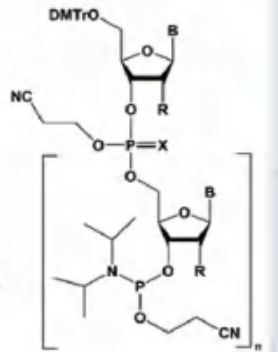
Name	Catalog ID
500Å CPG	209501
1000Å CPG	209502
2000Å CPG	209503

Dimer, Trimer

Tailor your research precisely with our customizable dimer and trimer offerings. Whatever your specific requirements, we deliver the precise combinations you need, ensuring flexibility and accuracy in your experimental design. Explore the possibilities with our comprehensive dimer and trimer solutions.

Labeled nucleotides

Discover a range of labeled nucleotides in table below, providing diverse options for your research needs. Additionally, we specialize in custom labeling services, tailoring nucleotides to your specific requirements. Explore our catalog or collaborate with us for personalized labeled nucleotide solutions, ensuring precision in your experiments.



n = 1, 2;

X = O, S;

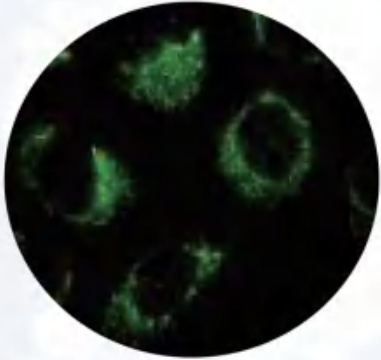
R = H, Fluoro, OMe, OTBDMS, OMOE, O-Propargyl, etc.

Catalog ID of labeled nucleotides

Name	Catalog ID	Name	Catalog ID
Biotin-11-dUTP (1 mM Solution, 50 µL)	210001	Sulfo-Cy3-UTP	210016
Biotin-14-dUTP (1 mM Solution, 50 µL)	210002	Sulfo-Cy5-UTP	210017
Biotin-16-dUTP (1 mM Solution, 50 µL)	210003	Sulfo-Cy7-UTP	210018
Sulfo-Cy3-dUTP	210004	Sulfo-Cy3-ddUTP	210019
Sulfo-Cy5-dUTP	210005	Sulfo-Cy5-ddUTP	210020
Sulfo-Cy7-dUTP	210006	dT-ATTO532	210021
Biotin-11-dTTP (1 mM Solution, 50 µL)	210007	dA-IF700	210022
Biotin-14-dTTP (1 mM Solution, 50 µL)	210008	dC-IF700	210023
Biotin-16-dTTP (1 mM Solution, 50 µL)	210009	dT-PEG4-ROX	210024
Sulfo-Cy3-dTTP	210010	dA-ATTO532	210025
Sulfo-Cy5-dTTP	210011	dG-Cy5	210026
Sulfo-Cy7-dTTP	210012		
Biotin-11-UTP (1 mM Solution, 50 µL)	210013		
Biotin-14-UTP (1 mM Solution, 50 µL)	210014		
Biotin-16-UTP (1 mM Solution, 50 µL)	210015		

Linkers

Explore our selection of linkers, versatile components widely employed in various biologically active molecules. Our offerings ensure compatibility and efficiency in diverse applications, enhancing the flexibility of your experimental designs.



Catalog ID of linkers

Name	3'-Linker-CPG (0.25g)	5'-Linker- phosphoramidite (0.25g)	Linker-dT (0.25g)
Spacer C3	211012	211013	—
Spacer C6	211022	211023	—
Spacer C9	—	211033	—
Spacer C18	—	211043	—
Spacer C20	—	211053	—
dSpacer	—	211063	—
NH2 C3	—	211073	—
NH2 C6	—	211083	211084
NH2 C12	—	211093	—
Thio Modifier C6 S-S	211102	211103	—
Cholesterol	211112	211113	—
Cholesteryl-TEG	211122	211123	—
Biotin	211132	211133	211134
Biotin TEG	211142	211143	—
Phosphorylation (CPR I)	211152	211153	—
NH2 C7	211162		
Universal linker	211172		
Sulfurizing Reagent II	211181		
Thio Modifier C3 S-S	211192	211193	
5'-Thio(S-Trityl)-hexyl-C6-Modifier Phosphoramidite		211203	
Spacer C12		211213	
Phosphorylation (CPR II)		211223	
Acrydite CEP		211233	
Carboxy-Modifier C5		211243	
PC Spacer CE Phosphoramidite		211253	

Building Blocks of Nucleic Acid Drugs

As nucleic acid drugs emerge as innovative therapeutic avenues with immense potential for treating human diseases, the demand for their foundational building blocks is escalating. At our forefront, we meet this demand by offering an extensive array of building blocks essential for mRNA caps, siRNA, and ASO development. Our catalog spans beyond the presented tables, accommodating various customizations to cater to specific research needs.

Ensuring the highest quality standards, our nucleic acid drug-related products boast a purity level of up to 98% (HPLC), with moisture content maintained at less than 0.3% (NMR). As pioneers in providing essential building blocks, we contribute to the seamless progress of nucleic acid drug development, empowering researchers in their quest for ground-breaking therapeutic modalities.

siRNA

Catalog ID of siRNA's building blocks

Name	Catalog ID
LNA Adenosine (N-Bz) CE phosphoramidite	302001
LNA 5-Methyl Cytidine (N-Bz) CE phosphoramidite	302002
LNA Guanosine (N, N-DMF) CE phosphoramidite	302003
LNA Thymidine CE phosphoramidite	302004
2'-O-PivOM-5'-O-DMTr-Adenosine (N-PAC)-3'-CEP	302005
2'-O-PivOM-5'-O-DMTr-Cytidine (N-Ac)-3'-CEP	302006
2'-O-PivOM-5'-O-DMTr-Guanosine (N-IPr-PAC)-3'-CEP	302007
2'-O-PivOM-5'-O-DMTr-Uridine-3'-CEP	302008
5'-DMT-2'-TBDMS-rA(N-Bz) Phosphoramidite	302009
5'-DMT-2'-TBDMS-rC(N-Ac) Phosphoramidite	302010
5'-DMT-2'-TBDMS-rG(N-Ac) Phosphoramidite	302011
5'-DMT-2'-TBDMS-rU Phosphoramidite	302012
5'-DMT-2'-OMe-rA(N-Bz) Phosphoramidite	302013
5'-DMT-2'-OMe-rC(N-Ac) Phosphoramidite	302014
5'-DMT-2'-OMe-rG(N-Ac) Phosphoramidite	302015
5'-DMT-2'-OMe-rU Phosphoramidite	302016
2'-O-TOM-Adenosine (N-Ac)-3'-CEP	302017
2'-O-TOM-Cytidine (N-Ac)-3'-CEP	302018
2'-O-TOM-Guanosine (N-Ac)-3'-CEP	302019
2'-O-TOM-Uridine-3'-CEP	302020
2'-Fluoro-2'-deoxyadenosine (N-Bz)-3'-CEP	302021
2'-Fluoro-2'-deoxycytidine (N-Ac)-3'-CEP	302022
2'-Fluoro-2'-deoxyguanosine (N-iBu)-3'-CEP	302023
2'-Fluoro-2'-deoxyuridine-3'-CEP	302024
2'-ALE-Adenosine (N-PAC)-5'-NPPOC-3'-CEP	302025
2'-ALE-Cytidine (N-iBu)-5'-NPPOC-3'-CEP	302026
2'-ALE-Guanosine (N-PAC)-5'-NPPOC-3'-CEP	302027
2'-ALE-Uridine-5'-NPPOC-3'-CEP	302028
Cytidine (n-bz) 3'-tBDSilyl CED phosphoramidite	302029
Adenosine (n-bz) 3'-tBDSilyl CED phosphoramidite	302030
Uridine 3'-tBDSilyl CED phosphoramidite	302031
Guanosine (N-iBu) 3'-tBDSilyl CED phosphoramidite	302032

ASO

Catalog ID of ASO's building blocks

Name	Catalog ID
Uridine-DMTr-5'-CEP	303001
Cytidine (N-Ac)-DMTr-5'-CEP	303002
Adenosine (N-Bz)-DMTr-5'-CEP	303003
Guanosine (N-IPr-PAC)-DMTr-5'-CEP	303004
Adenosine (N-Bz)-DMTr-5'-Icaa CPG	303005
Cytidine (N-Ac)-DMTr-5'-Icaa CPG	303006
Uridine-DMTr-5'-Icaa CPG	303007
Guanosine (N-IPr-PAC)-DMTr-5'-Icaa CPG	303008
Beta-L-deoxy Adenosine (n-bz) CED phosphoramidite	303009
Beta-L-deoxy Cytidine (n-acetyl) CED phosphoramidite	303010
Beta-L-deoxy Guanosine (n-ibu) CED phosphoramidite	303011
Beta-L-Thymidine CED phosphoramidite	303012

Delivery systems

Catalog ID of delivery systems

Name	Catalog ID
GalNAc-Cluster-COONa	304001
GalNAc-Cluster-HHA-CE Amidite	304002
TEG-GalNAc-Cluster-Succinate	304003
Gal3C2 CPG 500	304004
Gal3C2 CPG 1000	304005
Gal3C2 Amidite	304006
GalNAc-C6-CE amidite	304007
GalNAc-L96 CPG 1000	304008

(*The use of these products may require the buyer to obtain additional third party intellectual property rights for certain applications)



We test each and every manufacturing step by means of an extensive quality management system, based on ISO 9001. This guarantees high quality from the development to the delivery. Our unwavering commitment to quality assurance ensures that each product meets or exceeds the highest standards, empowering your research with the reliability it deserves.



Our commitment to excellence begins with rigorous quality control measures. Each dye or modified nucleoside/nucleotide undergoes meticulous quantification using UV spectrophotometry and undergoes a comprehensive battery of analyses including mass spectrometry, NMR (^1H , ^{31}P , ^{13}C), and HPLC.

Stability testing and residual solvent assessments are integral parts of our quality control regimen, ensuring the reliability and longevity of our products. For phosphoramidite products, a dedicated moisture test is conducted to meet stringent standards.

Should your research or manufacturing demand specific purity levels, we provide a range of additional purification methods, including but not limited to:

- AX-HPLC, RP-HPLC, or double RP-HPLC
- RP-cartridge
- Ion pairing HPLC
- Size exclusion



