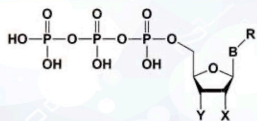


Modified Nucleosides / Nucleotides

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.

Base modified nucleotides

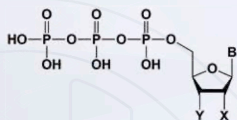


B = Base (A, C, G, U, T, I, X, pU, iso-C, iso-G)

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

X / Y = H, OH

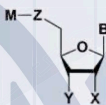
Sugar modified nucleotides



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

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

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-aminoethyl, etc.

Modified Nucleosides / Nucleotides
& Linkers

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✉ Email: contact@u-genes.com



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-iso-dGTP (100mM solution)	201007
7-deaza-7-(octa-1,7 diyanyl)-2'-deoxyguanosine 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

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

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'-tetraphosphate	203006
α-thio-γ-amino-2'-Deoxythymidine-5'-Triphosphate	203007
Aminohexyl-C6-dC6P	203008

Purity ≥99% by HPLC

Modified Nucleosides / Nucleotides

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 18	—	211043	—
Spacer 20	—	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)	211222	211223	—
Acrydite CEP	—	211233	—
Carboxy-Modifier C5	—	211243	—
PC Spacer CE Phosphoramidite	—	211253	—