

Nucleoside Triphosphate Bibliography

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Product	Catalog #	Application	Title	Author	Journal	Year
2'-Fluoro-2'-dCTP, 2'-Fluoro-2'-dUTP	N-1008, N-1010	SELEX	Water soluble RNA based antagonist of AMPA receptors	Du M, et al	Neuropharmacology	2008
2'-Fluoro-2'-dCTP, 2'-Fluoro-2'-dUTP	N-1008, N-1010	Therapeutic	Multivalent 4-1BB binding aptamers costimulate CD8+ T cells and inhibit tumor growth in mice	McNamara J, et al	The Journal of Clinical Investigation	2008
N6-Methyl-ATP	N-1013	ATP hydrolysis	Asymmetric nucleotide transactions of the HslUV protease	Yakamovich J, Baker T, Sauer R	Journal of Molecular Biology	2008
3'-dGTP, 2'-O-Me-GTP	N-1017, N-3002	Therapeutic	The Imidazopyrrolopyridine Analogue AG110 Is a Novel, Highly Selective Inhibitor of Pestiviruses That Targets the Viral RNA-Dependent RNA Polymerase at a Hot Spot for Inhibition of Viral Replication	Pae-shuyse J, et al	Journal of Virology	2007
3'-dGTP, 2'-O-Me-GTP, 2'-O-Me-ITP, ITP, 2',3'-ddGTP	N-1017, N-1020, N-1021, N-3002, N-4002	Therapeutic	Effects of Mutagenic and Chain-Terminating Nucleotide Analogs on Enzymes Isolated from Hepatitis C Virus Strains of Various Genotypes	Heck J, et al	Antimicrobial Agents and Chemotherapy	2008
4-Thio-UTP	N-1025	PCR, cross-linking	Eukaryotic ribosomal protein RPS25 interacts with the conserved loop region in a dicistroviral intergenic internal ribosome entry site	Nishiyama T, et al	Nucleic Acid Research	2007
4-Thio-UTP	N-1025	Microarray	Microarray analysis of newly synthesized RNA in cells and animals	Kenzelmann M, et al	Proceedings of the National Academy of Sciences of the United States of America	2007
8-Oxo-GTP, 8-Oxo-2'-dGTP	N-1066, N-2034	Incorporation	Assessing biomarkers of oxidative stress: Analysis of guanosine and oxidized guanosine nucleotide triphosphates by high performance liquid chromatography with electrochemical detection	Bolin C, Cardozo-Pelaez F	Journal of Chromatography B: Biomedical and Science Applications	2007
2'-deoxyd-iaminopurine-5'-TP	N-2003	Enzymatic synthesis, Glycerol nucleic acid	Enzymatic synthesis of DNA on glycerol nucleic acid templates without stable duplex formation between product and template	Ching-Hsuan Tsai, Jingyang Chen, and Jack W. Szostak	Proceedings of the National Academy of Sciences of the United States of America	2007
2'-deoxyd-iaminopurine-5'-TP, 2'-dITP, 2'-dUTP, 5-Methyl-2'-dCTP	N-2003, N-2012, N-2020, N-2026	PCR	Inverting the natural hydrogen bonding rule to selectively amplify GC-rich ADAR-edited RNAs	Suspène R, et al	Nucleic Acid Research	2008
5-Bromo-2'-dUTP	N-2008	Reverse Transcription, therapeutic	Interactions between HIV-1 Reverse Transcriptase and the Downstream Template Strand in Stable Complexes with Primer-Template	Rutvisutinunt W, Meyer P, Scott W	PLoS ONE	2008

Product	Catalog #	Application	Title	Author	Journal	Year
5-AA-2'-dCTP, 5-AA-2'-dUTP, 5-Propynyl-2'-dCTP, 5-Propynyl-2'-dUTP	N-2016, N-2017, N-2048, N-2049	PCR	Systematic characterization of 2'-deoxynucleoside- 5'-triphosphate analogs as substrates for DNA polymerases by PCR and kinetic studies on enzymatic production of modified DNA	Kuwahara M, et al	Nucleic Acid Research	2006
8-Oxo-2'-dGTP	N-2034	Therapeutic	Selection of Anthrax Toxin Protective Antigen Variants that Discriminate Between the Cellular Receptors TEM8 and CMG2 and Achieve Targeting of Tumor Cells	Chen K, et al	Journal of Biological Chemistry	2008
8-Oxo-2'-dGTP	N-2034	Substrate specificity	Structural Basis for Different Substrate Specificities of Two ADP-Ribose Pyrophosphatases from <i>Thermus thermophilus</i> HB8	Wakamatsu T, et al	Journal of Bacteriology	2008
8-Oxo-2'-dGTP	N-2034	Therapeutic	Trace amounts of 8-oxo-dGTP in mitochondrial dNTP pools reduce DNA polymerase γ replication fidelity	Pursell Z, et al	Nucleic Acid Research	2008
3'-dGTP	N-3002	Therapeutic	P-TEFb is Critical for the Maturation of RNA Polymerase II into Productive Elongation In Vivo	Ni Z, et al	Molecular and Cellular Biology	2008
3'-dCTP	N-3003	Therapeutic	Mechanism of Activation of β -d-2'-Deoxy-2'-Fluoro-2'-C-Methylcytidine and Inhibition of Hepatitis C Virus NS5B RNA Polymerase	Murakami E, et al	Antimicrobial Agents and Chemotherapy	2007
3'-dUTP	N-3005	Transcription	Transcription coupled nucleotide excision repair in <i>Escherichia coli</i> can be affected by changing the arginine at position 529 of the β subunit of RNA polymerase	Ganesan A, et al	DNA Repair (Amst)	2007
3'-Azido-2',3'-ddATP, 3'-Azido-2',3'-ddGTP	N-4002, N-4007	Reverse Transcription, therapeutic	3'-Azido-2',3'-dideoxynucleoside 5'-triphosphates inhibit telomerase activity in vitro, and the corresponding nucleosides cause telomere shortening in human HL60 cells	Liu X, et al	Nucleic Acid Research	2007
3'-Azido-2',3'-ddATP, 3'-Azido-2',3'-ddCTP, 3'-Azido-2',3'-ddGTP	N-4007, N-4008, N-4014	Therapeutic	A novel mechanism of selectivity against AZT by the human mitochondrial DNA polymerase	Hanes J, Johnson K	Nucleic Acid Research	2007
3'-Azido-2',3'-ddTTP	N-4009	Reverse Transcription, therapeutic	Molecular Mechanism by Which the K70E Mutation in Human Immunodeficiency Virus Type 1 Reverse Transcriptase Confers Resistance to Nucleoside Reverse Transcriptase Inhibitors	Sluis-Cremer N, et al	Antimicrobial Agents and Chemotherapy	2007
3'-Azido-2',3'-ddTTP	N-4009	Therapeutic	Mechanisms by Which the G333D Mutation in Human Immunodeficiency Virus Type 1 Reverse Transcriptase Facilitates Dual Resistance to Zidovudine and Lamivudine	Zelina S, et al	Antimicrobial Agents and Chemotherapy	2008
ppGpp	N-6001	Replication	Nutritional Control of Elongation of DNA Replication by (p)ppGpp	Wang J, Sanders G, Grossman A	Cell	2007
ppGpp	N-6001	Therapeutic	Interaction of <i>Bacillus subtilis</i> CodY with GTP	Handke L, Shivers R, Sonenshein A	Journal of Bacteriology	2008