

Nucleosides and Nucleotides



Nucleosides and nucleotides are the building blocks of RNA and DNA. They are derived from nitrogenous bases and are either purines (adenine and guanine) or pyrimidines (cytosine, uracil, and thymine). Nucleosides are glycosylamines consisting of a purine or pyrimidine base covalently linked to a ribose or deoxyribose sugar. Nucleotides are the 5'-phosphate esters of nucleosides and may contain one to three phosphate groups. Nucleosides and nucleotides, when assembled to RNA and DNA, are responsible for encoding, transmitting and expressing genetic information in all organisms.

Several nucleoside analogues are used to inhibit DNA and RNA replication in viruses or oncogenic cells. Nucleic acid analogues are also used to study enzyme inhibition and for sequencing analyses. Alfa Aesar supplies a range of high quality nucleosides and nucleotides and also their derivatives and analogues.

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|-------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------|
|  | J63361 | 1,1-Dimethylbiguanide hydrochloride |
|  | L19664 | 1,3-Dimethyluracil, 99% |
|  | J64782 | 1-(4-Amino-2-n-propyl-5-pyrimidinylmethyl)-2-methylpyridinium chloride |
|  | J64147 | 1-beta-D-Arabinofuranosyluracil, 99% |
|  | J61034 | 1H-Tetrazole, 0.45M in acetonitrile |
|  | J65748 | 2,2'-Diamino-2'-deoxyadenosine, 98% |
|  | J64573 | 2',3'-Dideoxyadenosine, 98% |
|  | L10619 | 2',3'-Dideoxycytidine, 98+% |
|  | J65810 | 2',3'-Dideoxyguanosine, 90+% |
|  | J64833 | 2',3'-Dideoxyinosine, 98% |
|  | A15131 | 2,4-Dichloropyrimidine, 98+% |
|  | J65532 | 2'-Amino-2'-deoxyadenosine, 98% |
|  | J64266 | 2-Amino-2'-deoxyadenosine, 99% |
|  | J64650 | 2'-Amino-2'-deoxyguanosine, 98% |


















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|  J65374 | 2'-Amino-2'-deoxyinosine, 98% |
|  J65334 | 2-Amino-2'-O-methyladenosine, 99% |
|  A18195 | 2-Amino-6-chloropurine, 99% |
|  J64468 | 2-Amino-6-chloropurine riboside, 95% |
|  B24594 | 2-Aminopyrimidine, 98% |
|  J64704 | 2'-Bromo-2'-deoxyuridine, 98% |
|  J60927 | 2-Chloro-2'-arabino-fluoro-2'-deoxyadenosine, 99+% |
|  A15394 | 2-Chloropyrimidine, 98% |
|  J65307 | 2'-Deoxyadenosine-5'-diphosphate trisodium salt, 98% |
|  J64402 | 2'-Deoxyadenosine-5'-monophosphate, 98% |
|  J65542 | 2'-Deoxyadenosine-5'-triphosphate disodium salt, 97% |
|  J63886 | 2'-Deoxyadenosine, 99% |
|  A11166 | 2'-Deoxyadenosine monohydrate, 99% |
|  J14235 | 2'-Deoxyadenosine monohydrate, Affymetrix/USB |
|  J63062 | 2'-Deoxycytidine |
|  J65244 | 2'-Deoxycytidine-5'-monophosphate, 99% |
|  J65724 | 2'-Deoxycytidine-5'-monophosphate disodium salt |
|  J65686 | 2'-Deoxycytidine-5'-triphosphate disodium salt |
|  L14153 | 2'-Deoxycytidine hydrochloride, 99% |



















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|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------|
|  | A11990 | 2-Deoxy-D-ribose, 99% |
|  | J65186 | 2'-Deoxyguanosine-5'-monophosphate disodium salt hydrate, 98% |
|  | L14519 | 2'-Deoxyguanosine hydrate, 99% |
|  | J60741 | 2'-Deoxyguanosine monohydrate, 98+% |
|  | J14304 | 2'-Deoxyguanosine monohydrate, synthetic, 98+% (dry basis), Thermo Scientific |
|  | J61411 | 2'-Deoxyinosine |
|  | J64271 | 2'-Deoxyinosine-5'-monophosphate disodium salt, 99% |
|  | H52292 | 2'-Deoxyinosine, 98+% |
|  | J64938 | 2'-Deoxythymidine-5'-diphosphate trisodium salt, 97% |
|  | J64627 | 2'-Deoxyuridine-5'-monophosphate disodium salt, 99% |
|  | J64716 | 2'-Deoxyuridine-5'-triphosphate trisodium salt, 95% |
|  | A16026 | 2'-Deoxyuridine, 98+% |
|  | J65441 | 2'-Fluoro-2'-deoxyadenosine, 99% |
|  | J65632 | 2'-Fluoro-2'-deoxycytidine, 99% |
|  | J64055 | 2'-Fluoro-2'-deoxyguanosine, 99% |
|  | J65208 | 2'-Fluoro-2'-deoxyinosine, 99% |
|  | J65948 | 2'-Fluoro-2'-deoxyuridine, 97% |
















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|  | J65562 | 2-Fluoro-9-beta-D-arabinofuranosyladenine, 98% |
|  | J65608 | 2'-Fluoro-N2-isobutyryl-2'-deoxyguanosine, 98% |
|  | A14086 | 2-Mercaptobenzothiazole, 97% |
|  | L01346 | 2-Mercaptoimidazole, 98+% |
|  | J64922 | 2'-O-Methyladenosine, 99% |
|  | J65528 | 2'-O-Methylcytidine, 99% |
|  | J65770 | 2'-O-Methylguanosine, 99% |
|  | J64897 | 2'-O-Methyluridine, 99% |
|  | A18119 | 2-Thiouracil, 98% |
|  | J63312 | 3,3',5-Triiodo-L-thyronine sodium salt |
|  | J65090 | 3'-Amino-2',3'-dideoxyadenosine, 98% |
|  | J65326 | 3'-Amino-2',3'-dideoxyguanosine, 99% |
|  | J64758 | 3'-Amino-2',3'-dideoxyinosine, 98% |
|  | J64342 | 3'-Amino-2',3'-dideoxythymidine, 99% |
|  | B23707 | 3-Aminopyrazine-2-carboxylic acid, 98% |
|  | J65127 | 3'-Azido-3'-deoxythymidine, 98% |
|  | J65366 | 3'-Deoxyadenosine, 98% |



















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|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------|
|  | J65765 | 3'-Deoxythymidine |
|  | J65531 | 3'-Deoxyuridine |
|  | A10859 | 4(3H)-Pyrimidinone, 98% |
|  | L13212 | 4,6-Dichloropyrimidine, 97% |
|  | A15688 | 4,6-Dihydroxypyrimidine, 98% |
|  | B24012 | 4-Aminoimidazole-5-carboxamide hydrochloride, 98% |
|  | J60679 | 4-Thiouridine, 98+% |
|  | L01996 | 5,6-Dihydro-5-methyluracil, 98+% |
|  | L01918 | 5,6-Dihydrouracil, 97% |
|  | J64720 | 5-Aminoimidazole-4-carboxamide 1-beta-D-ribofuranoside, 98% |
|  | L04452 | 5-Aminouracil, 97% |
|  | J65513 | 5-Aza-2'-deoxycytidine, 98% |
|  | J64159 | 5-Azacytidine, 98% |
|  | A13410 | 5-Azacytosine, 98% (dry wt.), may cont. up to ca 7% water |
|  | J65456 | 5-Bromo-2'-deoxycytidine, 99% |
|  | A14799 | 5-Bromouracil, 98+% |
|  | A18507 | 5-Bromouridine, 98% |
|  | A11084 | 5-Chlorouracil, 98% |



















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|-------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------|
|  | L16497 | 5-Fluoro-2'-deoxyuridine, 98+% |
|  | L16496 | 5-Fluorocytosine, 98+% |
|  | A13456 | 5-Fluorouracil, 99% |
|  | J62083 | 5-Fluorouridine, 97% |
|  | J61356 | 5-Iodo-2'-deoxycytidine, 99% |
|  | A11542 | (+)-5-Iodo-2'-deoxyuridine, 98% |
|  | J64698 | 5-Iodocytidine, 99% |
|  | A18994 | 5-Iodouracil, 97% |
|  | J62259 | 5-Iodouridine, 96% |
|  | J65209 | 5-Methyl-2'-deoxycytidine, 99% |
|  | 43492 | 5-Methylcytosine, 97% |
|  | J65136 | 5'-O-(4,4'-Dimethoxytrityl)-2'-deoxyinosine, 98% |
|  | J65960 | 5'-O-(4,4'-Dimethoxytrityl)-2'-deoxyuridine, 98% |
|  | J64217 | 5'-O-(4,4'-Dimethoxytrityl)-2'-fluoro-2'-deoxyuridine, 98% |
|  | J64232 | 5'-O-(4,4'-Dimethoxytrityl)-2'-fluoro-N2-isobutyryl-2'-deoxyguanosine, 98% |







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|  | J65508 | 5'-O-(4,4'-Dimethoxytrityl)-2'-O-methyluridine-3'-(2-cyanoethyl diisopropylphosphoramidite), 98% |
|  | J64880 | 5'-O-(4,4'-Dimethoxytrityl)-2'-O-methyluridine, 98% |
|  | J65100 | 5'-O-(4,4'-Dimethoxytrityl)-N2-isobutyryl-2'-O-methylguanosine-3'-(2-cyanoethyl diisopropylphosphoramidite), 98% |
|  | J65583 | 5'-O-(4,4'-Dimethoxytrityl)-N2-isobutyryl-2'-O-methylguanosine, 98% |
|  | L06692 | 6-Aminonicotinamide, 99% |
|  | L03332 | 6-Aminouracil, 98% |
|  | L06762 | 6-Azathymine, 98% |
|  | A14389 | 6-Azauracil, 98% |
|  | J61309 | 6-Azauridine |
|  | A14678 | 6-Benzyladenine, 99% |
|  | J64871 | 6-Chloropurine 2'-deoxyriboside, 97% |
|  | A11202 | 6-Chloropurine, 99% |
|  | J64612 | 6-Chloropurine riboside, 98% |
|  | L01875 | 6-Chlorouracil, 98+% |
|  | A12197 | 6-Mercaptopurine monohydrate, 98% |
|  | A17982 | 6-Methyl-2-thiouracil, 98% |
|  | B24191 | 6-Methyluracil, 97% |















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|-------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------|
|  | B21280 | 6-Thioguanine, 98% |
|  | L07983 | 7-Azaindole, 98% |
|  | J65357 | 8-Bromo-2'-deoxyadenosine, 99% |
|  | J64723 | 8-Bromo-2'-deoxyguanosine, 99% |
|  | J65582 | 8-Bromoadenine |
|  | J64469 | 8-Bromoadenosine-3',5'-cyclic monophosphate |
|  | L03544 | 8-Bromoadenosine, 98% |
|  | J63940 | 8-Bromoguanosine |
|  | L02992 | 8-Bromoguanosine hydrate, 97% |
|  | J65154 | 9-beta-D-Arabinofuranosyl-2-fluoroadenine-5'-monophosphate, 99% |
|  | J65653 | 9-beta-D-Arabinofuranosyladenine-5'-monophosphate, 99% |
|  | J65076 | 9-beta-D-Arabinofuranosyladenine, 99% |
|  | J10430 | Adenine, 98+%, Thermo Scientific |
|  | A14906 | Adenine, 99% |
|  | A17622 | Adenine hydrochloride, 98+%, cont. up to ca 5% water |
|  | A16964 | Adenine sulfate, 98+% |
|  | J10450 | Adenine sulfate dihydrate, 97+%, Thermo Scientific |
|  | J60558 | Adenosine-2',3'-cyclic monophosphate sodium salt, 97% |

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|  | J60936 | Adenosine-3',5'-cyclic monophosphate, 98% |
|  | J62174 | Adenosine-3',5'-cyclic monophosphate sodium salt, 99% |
|  | L14029 | Adenosine-5'-diphosphate disodium salt, 96% (dry wt.), water 15% max. |
|  | J10490 | Adenosine-5'-diphosphate disodium salt dihydrate, Thermo Scientific |
|  | J60672 | Adenosine-5'-diphosphate monopotassium salt dihydrate, 99% |
|  | J64497 | Adenosine-5'-diphosphate trilithium salt, 98% |
|  | J61643 | Adenosine-5'-monophosphate disodium salt |
|  | L14051 | Adenosine-5'-monophosphoric acid, 99% (dry wt.), water <6% |
|  | J61125 | Adenosine-5'-triphosphate disodium salt hydrate, 98% |
|  | L14522 | Adenosine-5'-triphosphate disodium salt hydrate, 98%, water <10% |
|  | J10585 | Adenosine-5'-triphosphate disodium salt hydrate, Thermo Scientific |
|  | J60336 | Adenosine-5'-triphosphate disodium salt hydrate, ultrapure, 98% |
|  | A10781 | Adenosine, 99% |
|  | B24696 | Aminoguanidine hydrogen carbonate, 98+% |
|  | A12763 | Benzimidazole, 99% |

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|  | J62337 | beta-Nicotinamide adenine dinucleotide, 97% |
|  | J62556 | beta-Nicotinamide adenine dinucleotide phosphate disodium salt, 97% |
|  | 44126 | beta-Nicotinamide adenine dinucleotide phosphate monosodium salt |
|  | J62089 | beta-Nicotinamide adenine dinucleotide phosphate reduced tetrasodium salt, 95% |
|  | J60387 | beta-Nicotinamide adenine dinucleotide phosphate reduced tetrasodium salt hydrate, 97% |
|  | J61638 | beta-Nicotinamide adenine dinucleotide reduced disodium salt, 97% |
|  | J61461 | beta-Nicotinamide adenine dinucleotide reduced disodium salt trihydrate, 98% |
|  | A15461 | Citrazinic acid, 97% |
|  | J63845 | Cyclocytidine hydrochloride, 98+% |
|  | J64234 | Cytidine-5'-diphosphate disodium salt, 95% |
|  | J64350 | Cytidine-5'-diphosphate trisodium salt |
|  | J64161 | Cytidine-5'-diphosphocholine sodium salt |
|  | J63376 | Cytidine-5'-monophosphate disodium salt, 99+% |
|  | J62238 | Cytidine-5'-triphosphate disodium salt, 97% |
|  | J14121 | Cytidine-5'-Triphosphate disodium salt dihydrate, Thermo Scientific |
|  | A10261 | Cytidine, 99% |
|  | J14060 | Cytidine, free base, Thermo Scientific |
|  | A14731 | Cytosine, 98+% |

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|-------------------------------------------------------------------------------------|--------|------------------------------------------------------------|
|  | J65671 | Cytosine-beta-D-arabinofuranose hydrochloride |
|  | J62977 | Denatured calf thymus DNA, phenol extracted |
|  | J64400 | Deoxyribonucleic acid sodium salt, calf thymus |
|  | J65753 | Deoxyribonucleic acid sodium salt, salmon testes |
|  | B21250 | Guanidine thiocyanate, 99% |
|  | J61646 | Guanosine-5'-diphosphate disodium salt |
|  | J61414 | Guanosine-5'-triphosphate disodium salt |
|  | J16800 | Guanosine-5'-triphosphate disodium salt, Thermo Scientific |
|  | A11328 | Guanosine, 98% |
|  | J61354 | Hydroxyguanidine sulfate |
|  | A11481 | Hypoxanthine, 99% |
|  | J65397 | Inosine-5'-diphosphate disodium salt, 95% |
|  | J61959 | Inosine-5'-monophosphate disodium salt hydrate |
|  | A14459 | Inosine, 98+% |
|  | H54228 | Isocytosine, 99% |
|  | J62606 | L-Thyroxine, 98% |
|  | B23301 | Mercaptosuccinic acid, 98% |
|  | J60033 | Methylguanidine hydrochloride, 98% |

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|-------------------------------------------------------------------------------------|--------|----------------------------------------------------------------------------------------------------------------------|
|  | J65736 | N4-Benzoyl-2'-fluoro-2'-deoxycytidine, 98% |
|  | J64614 | N4-Benzoyl-5'-O-(4,4'-dimethoxytrityl)-2'-fluoro-2'-deoxycytidine, 98% |
|  | J65701 | N4-Benzoyl-5'-O-(4,4'-dimethoxytrityl)-2'-O-methylcytidine-3'-(2-cyanoethyl diisopropylphosphoramidite), 98% |
|  | J65790 | N4-Benzoylcytidine, 99% |
|  | J64064 | N6-Benzoyl-5'-O-(4,4'-dimethoxytrityl)-2'-fluoro-2'-deoxyadenosine-3'-(2-cyanoethyl diisopropylphosphoramidite), 98% |
|  | J65402 | N6-Benzoyl-5'-O-(4,4'-dimethoxytrityl)-2'-fluoro-2'-deoxyadenosine, 98% |
|  | J65669 | N6-Benzoyl-5'-O-(4,4'-dimethoxytrityl)-2'-O-methyladenosine-3'-(2-cyanoethyl diisopropylphosphoramidite), 98% |
|  | J65098 | N6-Benzoyl-5'-O-(4,4'-dimethoxytrityl)-2'-O-methyladenosine, 98% |
|  | J64961 | N6-Methyl-2'-deoxyadenosine, 99% |
|  | L08292 | N-Benzoylaminopurine, 99% |
|  | J60999 | Purine, 97+% |
|  | J61215 | Ribonucleic acid from Baker's yeast |
|  | A11861 | Theobromine, 99% |
|  | J60203 | Theophylline |

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|-------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------|
|  | A11144 | Thionicotinamide, 98% |
|  | J60747 | Thymidine-5'-monophosphate disodium salt |
|  | A11493 | Thymidine, 99% |
|  | A15879 | Thymine, 97% |
|  | J63382 | trans-Zeatin-riboside |
|  | A15570 | Uracil, 99+% |
|  | J64329 | Uridine-5'-diphosphate disodium salt, 98% |
|  | J60141 | Uridine-5'-diphosphate trisodium salt, 98+% |
|  | A18601 | Uridine-5'-monophosphate disodium salt, 99% |
|  | J63427 | Uridine-5'-triphosphate trisodium salt, 98+% |
|  | J23160 | Uridine-5'-triphosphate trisodium salt hydrate, 90+%, Thermo Scientific |
|  | A15227 | Uridine, 99% |
|  | A11077 | Xanthine, 99% |
|  | J23465 | Xanthine monosodium salt monohydrate, 96+% (dry basis), Thermo Scientific |

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