

Product Information

DMT-LNA-G phosphoramidite

Cat. No.: X24-03-LY082

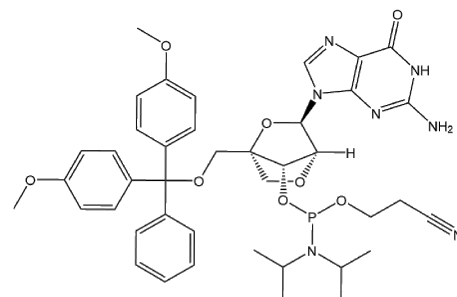
Size: 100 mg; 250 mg; 500 mg; 1 g; 5 g; 10 g

CAS Number: 207131-17-7

PubChem CID: 136715717

Synonym: 207131-17-7; (1*R*, 3*R*, 4*R*, 7*S*)-3-(2-Amino-6-oxo-1,6-dihydro-9*H*-purin-9-yl)-1-((bis(4-methoxyphenyl)(phenyl)methoxy)methyl)-2,5-dioxabicyclo[2.2.1]heptan-7-yl (2-cyanoethyl) diisopropylphosphoramidite

This product is for research use only and is not intended for diagnostic use.



Product Information

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| Description | DMT-LNA-G phosphoramidite has multiple chiral centers and functional groups. It belongs to the class of 2'-O-MOE-phosphoramidite monomers. |
| Molecular Weight | 797.84 |
| Molecular Formula | C ₄₁ H ₄₈ N ₇ O ₈ P |
| IUPAC Name | 3-[[[(1 <i>R</i> , 3 <i>R</i> , 4 <i>R</i> , 7 <i>S</i>)-3-(2-Amino-6-oxo-1 <i>H</i> -purin-9-yl)-1-[[bis(4-methoxyphenyl)-phenylmethoxy]methyl]-2,5-dioxabicyclo[2.2.1]heptan-7-yl]oxy-[di(propan-2-yl)amino]phosphanyl]oxypropanenitrile |
| InChI | InChI=1S/C41H48N7O8P/c1-26(2)48(27(3)4)57(54-22-10-21-42)56-35-34-38(47-25-44-33-36(47)45-39(43)46-37(33)49)55-40(35, 23-52-34)24-53-41(28-11-8-7-9-12-28, 29-13-17-31(50-5)18-14-29)30-15-19-32(51-6)20-16-30/h7-9, 11-20, 25-27, 34-35, 38H, 10, 22-24H2, 1-6H3, (H3, 43, 45, 46, 49)/t34-, 35+, 38-, 40-, 57?/m1/s1 |
| InChI Key | FWLGFXLWSNDRLS-NVONNAQSSA-N |
| Canonical SMILES | CC(C)N(C(C)C)P(OCCC#N)OC1C2C(OC1(CO2)COC(C3=CC=CC=C3)(C4=CC=C(C=C4)OC)C5=C(C=C(C5)OC)N6C=NC7=C6N=C(NC7=O)N |
| Isomeric SMILES | CC(C)N(C(C)C)P(OCCC#N)O[C@H]1[C@@H]2[C@@H](O[C@]1(CO2)COC(C3=CC=CC=C3)(C4=CC=C(C=C4)OC)C5=CC=C(C=C5)OC)N6C=NC7=C6N=C(NC7=O)N |
| Form | White to off-white solid |
| Purity | ≥98% |
| Applications | DMT-LNA-G phosphoramidite is commonly used as an intermediate in drug synthesis and can be used to synthesize biologically active compounds or drugs. |
| Storage | Store at -20°C. |



Safety Information

Personal Protective Equipment Gloves, eyeshields, N95 mask
