

Product Information

DMT-LNA-5mA phosphoramidite

Cat. No.: X24-03-LY083

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

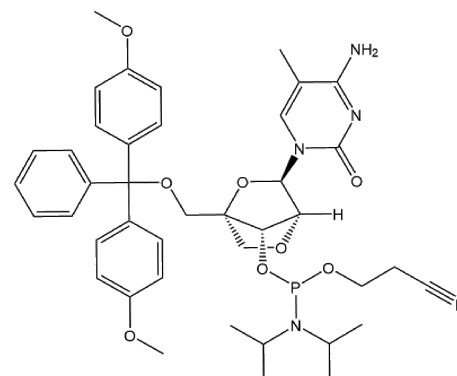
CAS Number: 1184723-53-2

PubChem CID: 169545659

Synonym: 1184723-53-2; 3-[[[(1R,

4S

)-3-(4-Amino-5-methyl-2-oxopyrimidin-1-yl)-1-[[bis(4-methoxyphenyl)-phenylmethoxy]methyl]-2, 5-dioxabicyclo[2.2.1]heptan-7-yl]oxy-[di(propan-2-yl)amino]phosphanyl]oxypropanenitrile



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

Product Information

Description	DMT-LNA-5mA phosphoramidite contains locknucleic acid (LNA) and 5-methyladenine (5mA) moieties and carries DMT and phosphoramidite protecting groups.
Molecular Weight	771.84
Molecular Formula	C ₄₁ H ₅₀ N ₅ O ₈ P
IUPAC Name	3-[[[(1R, 4S)-3-(4-Amino-5-methyl-2-oxopyrimidin-1-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/C41H50N5O8P/c1-27(2)46(28(3)4)55(52-23-11-22-42)54-36-35-38(45-24-29(5)37(43)44-39(45)47)53-40(36, 25-50-35)26-51-41(30-12-9-8-10-13-30, 31-14-18-33(48-6)19-15-31)32-16-20-34(49-7)21-17-32/h8-10, 12-21, 24, 27-28, 35-36, 38H, 11, 23, 25-26H2, 1-7H3, (H2, 43, 44, 47)/t35-, 36?, 38?, 40+, 55?/m0/s1
InChI Key	UJUKPCINNDKWEN-WIMBXOHISA-N
Canonical SMILES	CC1=CN(C(=O)N=C1N)C2C3C(C(O2)(CO3)COC(C4=CC=CC=C4)(C5=CC=C(C=C5)OC)C6=CC=C(C=C6)OC)OP(N(C(C)C)C(C)C)OCCC#N
Isomeric SMILES	CC1=CN(C(=O)N=C1N)C2[C@@H]3C([C@@](O2)(CO3)COC(C4=CC=CC=C4)(C5=CC=C(C=C5)OC)C6=CC=C(C=C6)OC)OP(N(C(C)C)C(C)C)OCCC#N
Form	White to off-white solid
Purity	≥98%
Applications	DMT-LNA-5mA phosphoramidite can be used to synthesize highly stable and selective



oligonucleotides and oligonucleotide molecules for use in research and biomedical applications.

Storage

Store at -20°C.

Safety Information

Personal Protective

Gloves, eyeshields, N95 mask

Equipment
