

Product Information

5'-O-(4,4'-Dimethoxytrityl-inosine

Cat. No.: X23-06-YW157

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

CAS Number: 119898-59-8

PubChem CID: 135497173

Synonym: DMT-Ir; 5'-O-DMT-rl; 5'-O-[Bis(4-methoxyphenyl)phenylmethyl]-Inosine;

Inosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]- (9CI);

9-[(2R,3R,4S,5R

)-5-[[bis

(4-methoxyphenyl)-phenylmethoxy]methyl]-3,4-dihydroxyoxolan-2-yl]-1H-purin-6-one

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

Product Information

Description	5'-O-(4,4'-Dimethoxytrityl-inosine at CD BioGlyco is a white to off-white powder product with a purity of ≥98%. It is a new monophosphate nucleotide analogue.
Molecular Weight	570.602
Molecular Formula	C ₃₁ H ₃₀ N ₄ O ₇
InChI	InChI=1S/C31H30N4O7/c1-39-22-12-8-20(9-13-22)31(19-6-4-3-5-7-19,21-10-14-23(40-2)15-11-21)41-16-24-26(36)27(37)30(42-24)35-18-34-25-28(35)32-17-33-29(25)38/h3-15,17-18,24,26-27,30,36-37H,16H2,1-2H3,(H,32,33,38)/t24-,26-,27-,30-/m1/s1
InChI Key	PQXVLEMIGAJLIN-BQOYKFDPSA-N
Canonical SMILES	<chem>COC1=CC=C(C=C1)C(C2=CC=CC=C2)(C3=CC=C(C=C3)OC)OCC4C(C(C(O4)N5C=NC6=C5N=CN6=O)O)O</chem>
Isomeric SMILES	<chem>COC1=CC=C(C=C1)C(C2=CC=CC=C2)(C3=CC=C(C=C3)OC)OC[C@@H]4[C@H]([C@H]([C@@H](O4)N5C=NC6=C5N=CNC6=O)O)O</chem>
Form	White to off-white powder
Purity	≥98%
Applications	5'-O-(4,4'-Dimethoxytrityl-inosine can be used integrated into DNA by ribonucleotide reductase.
Storage	Store at 4°C.