

Product Information

N2-Isobutyryl-5'-O-(4,4'-dimethoxytrityl)-2'-O-methoxyethyl-guanosine

Cat. No.: X23-06-YW172

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

CAS Number: 251647-50-4

PubChem CID: 135741311

Synonym: N2-iBu-DMT-2'-O-MOE-Gr;

5'-O-[Bis(4-methoxyphenyl)phenylmethyl]-2'-O-(2-methoxyethyl)-N

-(2-methyl-1-oxopropyl)guanosine; N-(9-((2R,3R,4R,5R

)-5-((Bis(4-methoxyphenyl)(phenyl)methoxy)methyl)-4-hydroxy-3-(2-methoxyethoxy)te

trahydrofuran-2-yl)-6-oxo-6,9-dihydro-1H-purin-2-yl)isobutyramide; N-[9-[(2R,3R,4R

,5R

)-5-[[bis(4-methoxyphenyl)-phenylmethoxy]methyl]-4-hydroxy-3-(2-methoxyethoxy)oxo

lan-2-yl]-6-oxo-3H-purin-2-yl]-2-methylpropanamide;

5'-O-DMT-N2-isobutyryl-2'-O-(2-methoxyethyl)guanosine

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

Product Information

Molecular Weight	713.788
Molecular Formula	C ₃₈ H ₄₃ N ₅ O ₉
InChI	InChI=1S/C38H43N5O9/c1-23(2)34(45)41-37-40-33-30(35(46)42-37)39-22-43(33)36-32(50-20-19-47-3)31(44)29(52-36)21-51-38(24-9-7-6-8-10-24,25-11-15-27(48-4)16-12-25)26-13-17-28(49-5)18-14-26/h6-18,22-23,29,31-32,36,44H,19-21H2,1-5H3,(H2,40,41,42,45,46)/t29-,31-,32-,36-/m1/s1
InChI Key	XDLPRZLZAFJSMA-BEGXHNNXSA-N
Canonical SMILES	CC(C)C(=O)NC1=NC2=C(C(=O)N1)N=CN2C3C(C(C(O3)COC(C4=CC=CC=C4)(C5=CC=C(C=C5)OC)C6=CC=C(C=C6)OC)O)OCCOC
Isomeric SMILES	CC(C)C(=O)NC1=NC2=C(C(=O)N1)N=CN2[C@H]3[C@@H]([C@@H]([C@H](O3)COC(C4=CC=C(C=C4)(C5=CC=C(C=C5)OC)C6=CC=C(C=C6)OC)O)O)OCCOC
Form	White to off-white powder
Purity	≥98%
Applications	N2-Isobutyryl-5'-O-(4,4'-dimethoxytrityl)-2'-O-methoxyethyl-guanosine is a synthetic nucleoside that can be used as a DNA polymerase activator. It also can be used to synthesize deoxyribonucleosides, phosphoramidites, and ribonucleosides.



Storage

Store at 4°C.
