

Product Information

5'-O-(4,4'-Dimethoxytrityl)-N2-isobutyryl-2'-fluoro-2'-deoxyguanosine

Cat. No.: X23-06-YW168

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

MDL: MFCD15145247

CAS Number: 144089-96-3

PubChem CID: 135453718

Synonym: N2-iBu-DMT-2'-F-dG; N-(9-((2R,3R,4R,5R

)5-((Bis(4-methoxyphenyl)(phenyl)methoxy)methyl)-3-fluoro-4-hydroxytetrahydrofuran

-2-yl)-6-oxo-6,9-dihydro-1H-purin-2-yl)isobutyramide; N-[9-[(2R,3R,4R,5R

)5-[[bis(4-methoxyphenyl)-phenylmethoxy]methyl]-3-fluoro-4-hydroxyoxolan-2-yl]-6-ox

o-1H-purin-2-yl]-2-methylpropanamide;

N-{9-[(2R,3R,4R,5R

)5-[[bis(4-methoxyphenyl)(phenyl)methoxy]methyl]-3-fluoro-4-hydroxyoxolan-2-yl]-6-o

xo-6,9-dihydro-1H-purin-2-yl]-2-methylpropanamide

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

Product Information

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| Description | 5'-O-(4,4'-Dimethoxytrityl)-N2-isobutyryl-2'-fluoro-2'-deoxyguanosine at CD BioGlyco is a white to off-white powder product with a purity of ≥98%. It has been demonstrated to impede bacterial growth by attaching to their ribosomes, preventing protein synthesis and cell division. |
| Molecular Weight | 657.699 |
| Molecular Formula | C ₃₅ H ₃₆ FN ₅ O ₇ |
| InChI | InChI=1S/C35H36FN5O7/c1-20(2)31(43)39-34-38-30-28(32(44)40-34)37-19-41(30)33-27(36)29(42)26(48-33)18-47-35(21-8-6-5-7-9-21,22-10-14-24(45-3)15-11-22)23-12-16-25(46-4)17-13-23/h5-17,19-20,26-27,29,33,42H,18H2,1-4H3,(H2,38,39,40,43,44)/t26-,27-,29-,33-/m1/s1 |
| InChI Key | QQQXVSXVBFQISZ-UNVYQVKTSA-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)F |
| 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)F |
| Form | White to off-white powder |



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|---------------------|---|
| Purity | ≥98% |
| Applications | 5'-O-(4,4'-Dimethoxytrityl)-N2-isobutyryl-2'-fluoro-2'-deoxyguanosine can be used as an antibiotic containing sulfur. |
| Storage | Store at 4°C. |
