

## Product Information

### DMT-2'-OMe-G(*i*Bu)-CE-phosphoramidite

**Cat. No.:** X23-11-ZQ642

**Size:** 10 mg; 100 mg; 500 mg; 1 g; 10 g

**MDL:** MFCD00792625

**CAS Number:** 150780-67-9

**PubChem CID:** 135587728

**Synonym:** 150780-67-9; 2'-OMe-ibu-G phosphoramidite; 2'-OMe-G(*ibu*)

phosphoramidite;

(2*R*,3*R*,4*R*,5*R*

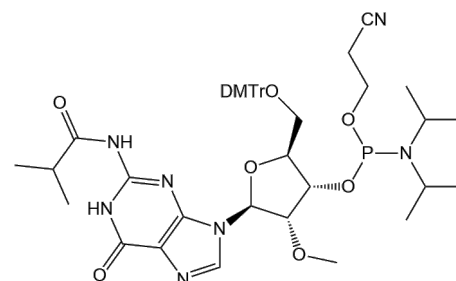
)-2-((Bis(4-

methoxyphenyl)(pheny

l)methoxy)methyl)-5-(2-isobutyramido-6-oxo-1,6-dihydro-9*H*

-purin-9-yl)-4-methoxytetrahydrofuran-3-yl (2-cyanoethyl) diisopropylphosphoramidite

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



### Product Information

<b>Molecular Weight</b>	869.96
<b>Molecular Formula</b>	C <sub>45</sub> H <sub>56</sub> N <sub>7</sub> O <sub>9</sub> P
<b>IUPAC Name</b>	<i>N</i> -[9-[(2 <i>R</i> ,3 <i>R</i> ,4 <i>R</i> ,5 <i>R</i> )-5-[[Bis(4-methoxyphenyl)-phenylmethoxy]methyl]-4-[2-cyanoethoxy-[di(propan-2-yl)amino]phosphanyl]oxy-3-methoxyoxolan-2-yl]-6-oxo-1 <i>H</i> -purin-2-yl]-2-methylpropanamide
<b>InChI</b>	InChI=1S/C45H56N7O9P/c1-28(2)41(53)49-44-48-40-37(42(54)50-44)47-27-51(40)43-39(57-9)38(61-62(59-25-13-24-46)52(29(3)4)30(5)6)36(60-43)26-58-45(31-14-11-10-12-15-31,32-16-20-34(55-7)21-17-32)33-18-22-35(56-8)23-19-33/h10-12,14-23,27-30,36,38-39,43H,13,25-26H2,1-9H3,(H2,48,49,50,53,54)/t36-,38-,39-,43-,62-/m1/s1
<b>InChI Key</b>	IRRDHRZUOZNWDJ-MLLDKZSOSA-N
<b>Canonical SMILES</b>	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)OP(N(C(C)C)C(C)C)OCCC#N)OC
<b>Isomeric SMILES</b>	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)OP(N(C(C)C)C(C)C)OCCC#N)OC
<b>Form</b>	White to off-white powder
<b>Purity</b>	≥98%



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<b>Impurities</b>	≤0.2%
<b>Applications</b>	DMT-2'-OMe-G( <i>i</i> Bu)-CE-phosphoramidite is a monomer that can be utilized for DNA, RNA, and 2'-OMe-RNA synthesis.
<b>Storage</b>	Store at -20°C.

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