

Product Information

Bz-rA phosphoramidite

Cat. No.: X24-03-LY648

Size: 250 mg; 1 g; 5 g; 10 g; 25 g; 100 g; 500 g; 1 kg

MDL: MFCD00080297

CAS Number: 104992-55-4

Compound CID: 11355126

Synonym: 104992-55-4; DMT-2'O-TBDMS-rA(bz) Phosphoramidite;

(2*R*,3*R*,4*R*,5*R*)-5-(6-Benzamido-9*H*

-purin-9-yl)-2-((bis(4

-methoxyphenyl)(phenyl)methoxy)methy

l)-4-((*tert*-butyldimethylsilyl)oxy)tetrahydrofuran-3-yl (2-cyanoethyl)

diisopropylphosphoramidite;

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

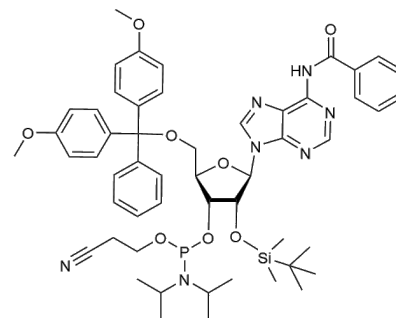
)-5-[[Bis(4-methoxyphenyl)-phe

nylmethoxy)methyl]-3-*tert*

-butyl(dimethyl)silyl]oxy-4-[2-cyanoethoxy-[di(propan-2-yl)amino]phosphanyl]oxyxola

n-2-yl]purin-6-yl]benzamide

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



Product Information

Description	Bz-rA Phosphoramidite is a protective nucleoside containing a modifying group of the nucleotide base rA (adenine) and a phosphate functional group.
Molecular Weight	988.19
Molecular Formula	C ₅₃ H ₆₆ N ₇ O ₈ PSi
IUPAC Name	<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]-3- <i>tert</i> -butyl(dimethyl)silyl]oxy-4-[2-cyanoethoxy-[di(propan-2-yl)amino]phosphanyl]oxyxolan-2-yl]purin-6-yl]benzamide
InChI	InChI=1S/C53H66N7O8PSi/c1-36(2)60(37(3)4)69(65-32-18-31-54)67-46-44(33-64-53(39-21-16-13-17-22-39,40-23-27-42(62-8)28-24-40)41-25-29-43(63-9)30-26-41)66-51(47(46)68-70(10,11)52(5,6)7)59-35-57-45-48(55-34-56-49(45)59)58-50(61)38-19-14-12-15-20-38/h12-17,19-30,34-37,44,46-47,5

1H,18,32-33H2,1-11H3,(H,55,56,58,61)/t44-,46-,47-,51-,69?/m1/s1

InChI Key	FFXHNCNNHASXCT-RFMFGJHUSA-N
Canonical SMILES	<chem>CC(C)N(C(C)C)P(OCCC#N)OC1C(OC(C1O[Si](C)(C)C(C)(C)C)N2C=NC3=C(N=CN=C32)NC(=O)C4=CC=CC=C4)COC(C5=CC=CC=C5)(C6=CC=C(C=C6)OC)C7=CC=C(C=C7)OC</chem>
Isomeric SMILES	<chem>CC(C)N(C(C)C)P(OCCC#N)O[C@@H]1[C@H](O[C@H]([C@@H]1O[Si](C)(C)C(C)(C)C)N2C=NC3=C(N=CN=C32)NC(=O)C4=CC=CC=C4)COC(C5=CC=CC=C5)(C6=CC=C(C=C6)OC)C7=CC=C(C=C7)OC</chem>
Form	Solid
Purity	≥98%
Applications	Bz-rA Phosphoramidite can be used for modification and functionalization in DNA and RNA synthesis.
Storage	Store at -20°C.
