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Phosphoramidites

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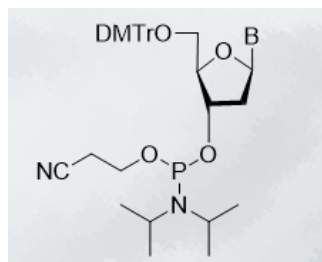
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Phosphoramidites

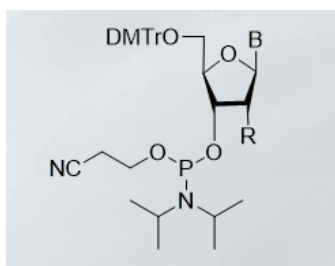
For Automated Oligonucleotide Synthesis

BOC Sciences, headquartered in New York, is specialized in supplying the natural DNA phosphoramidites and RNA phosphoramidites in large scales continuously. We can also supply the modified phosphoramidites including the 2'-modified phosphoramidites, reverse phosphoramidites, LNA phosphoramidites, UNA phosphoramidites, 3' NH Phosphoramidites from gram to kg scales.



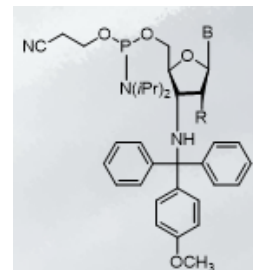
DNA Phosphoramidites

B = A^{Bz}, T, G^{ibu/dmf}, C^{Ac/Bz}, 5-MeC^{Bz/Ac}



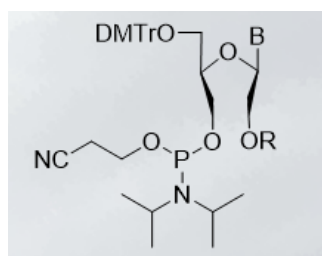
RNA Phosphoramidites

B = A^{Bz}, C^{Ac}, 5-MeC^{Bz}, G^{ibu/dmf}, U, 5-MeU
R = OTBDMS, OMe, OMOE, F



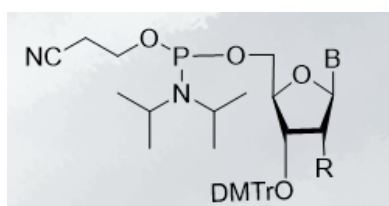
3' NH Phosphoramidites

R = -F; -OMe; -OMOE; -
OTBS;
NHPac;
B = A^{Bz}, T, G^{dmf}, C^{Bz}, U, 5-MeC^{Bz}



UNA Phosphoramidites

B = A^{Bz}, C^{Ac}, G^{dmf}, T
R = Bz

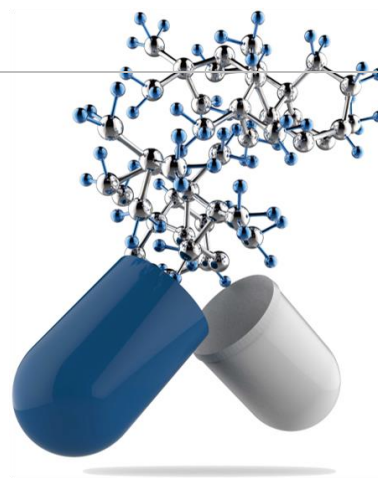


Reverse Phosphoramidites

R = H, B = A^{Bz}, C^{Bz/Ac}, G^{dmf/ibu}, T
R = OBz, B = A^{Bz}, C^{Ac}, G^{dmf}

- Dyes and Quenchers
- Modifiers
- Modified Frits Column

Other Products for Oligonucleotide Synthesis



Key Phosphoramidites

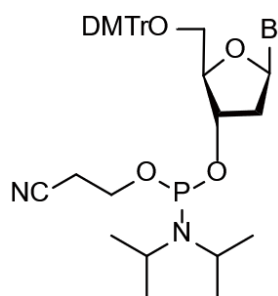
We have developed pseudoUridine phosphoramidite and its derivatives. Some intermediates are also available. We are the largest manufacturer of pseudoUridine in the world, with our massive, competitive internal supply of pseudoUridine, we can easily satisfy any needs for this category.

Base	CAS No.	Availability
5'-DMT-PseudoUridine	144429-55-0	Order basis
5'-DMT-2'-O-TBDMS-PseudoUridine	144429-56-1	Order basis
5'-DMT-2'-O-TBDMS-PseudoUridine-CE-Phosphoramidite	163496-23-9	Order basis
5'-DMT-3'-O-TBDMS-PseudoUridine	144429-58-3	Order basis
5'-DMT-3'-O-TBDMS-PseudoUridine-CE-Phosphoramidite	N/A	Order basis
5'-DMT-N1-Methyl-PseudoUridine	875302-39-9	Order basis
5'-DMT-2'-O-TBDMS-N1-Methyl-PseudoUridine	875302-41-3	Order basis
5'-DMT-2'-O-TBDMS-N1-Methyl-PseudoUridine-CE-Phosphoramidite	875302-45-7	Order basis
5'-DMT-3'-O-TBDMS-N1-Methyl-PseudoUridine	875302-43-5	Order basis
5'-DMT-3'-O-TBDMS-N1-Methyl-PseudoUridine-CE-Phosphoramidite	875302-47-9	Order basis
5'-DMT-2'-O-Me-PseudoUridine-CE-Phosphoramidite	N/A	Order basis
5'-DMT-2'-O-Me-N1-Methyl-PseudoUridine-CE-Phosphoramidite	N/A	Order basis

For 2'-TBDMS, 2'-OMe and 2'-F Phosphoramidites, we can provide hundreds of kilos according to your demand.

Base	CAS No.	Availability
2'-TBDMS		
5'-ODMT-2'-OTBDMS-Bz-rA CEP	104992-55-4	Kgs to Hundred Kgs
5'-ODMT-2'-OTBDMS-Ac-rC CEP	121058-88-6	Kgs to Hundred Kgs
5'-ODMT-2'-OTBDMS-rG(ibu) CEP	147201-04-5	Kgs to Hundred Kgs
5'-ODMT-2'-OTBDMS-rU CEP	118362-03-1	Kgs to Hundred Kgs
2'-OMe		
5'-ODMT-2'-OMe-A(Bz) CEP	110782-31-5	Kgs to Hundred Kgs
5'-ODMT-2'-OMe-C(Ac) CEP	199593-09-4	Kgs to Hundred Kgs
5'-ODMT-2'-OMe-G(ibu) CEP	150780-67-9	Kgs to Hundred Kgs
5'-ODMT-2'-OMe-U CEP	110764-79-9	Kgs to Hundred Kgs
2'-F		
5'-ODMT-2'-F-A (Bz) CEP	136834-22-5	Kgs to Hundred Kgs
5'-ODMT-2'-F-C (Ac) CEP	159414-99-0	Kgs to Hundred Kgs
5'-ODMT-2'-F-G (ibu) CEP	144089-97-4	Kgs to Hundred Kgs
5'-ODMT-2'-F-U CEP	146954-75-8	Kgs to Hundred Kgs

DNA Phosphoramidites



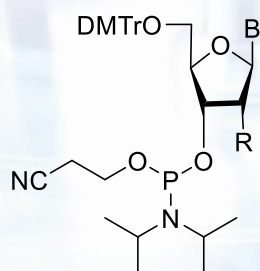
B=A^{Bz}, T, G^{ibu/dmf}, C^{Ac/Bz}, 5-MeC^{Bz/Ac}

DNA Phosphoramidites are building blocks that used for DNA oligonucleotides synthesis

Base	A	T	G	C	5-MeC
Protecting group	-Bz	--	-DMF -ibu	-Ac -Bz	-Bz -Ac

Base	CAS No.	Name	Availability
A ^{Bz}	98796-53-3	5'-ODMT-dA(Bz) CEP	kg
T	98796-51-1	5'-ODMT-dT CEP	kg
G ^{ibu}	93183-15-4	5'-ODMT-iBu-dG CEP	kg
G ^{dmf}	330628-04-1	5'-ODMT-dG(dmf) CEP	kg
C ^{Ac}	154110-40-4	5'-ODMT-dC(Ac) CEP	kg
C ^{Bz}	102212-98-6	5'-ODMT-Bz-dC CEP	kg
5-MeC ^{Bz}	105931-57-5	5'-ODMT-5-Me-dC(Bz) CEP	kg
5-MeC ^{Ac}	1873306-74-1	5'-ODMT-5-Me-dC(Ac) CEP	kg

RNA Phosphoramidites



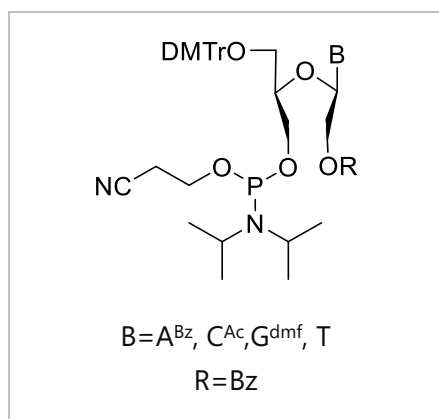
B=A^{Bz}, C^{Ac}, 5-MeC^{Bz}, G^{ibu/DMF}, U, 5-MeU
R=OTBDMS, OMe, OMOE, F

Besides the natural RNA Phosphoramidites, BOC sciences can also supply the modified RNA Phosphoramidites, such as 2'-OMe, 2'-OMOE, 2'-F, etc.

Base	A	U	G	C	5-MeC
Protecting group	-Bz	--	-DMF -ibu	-Ac	-Bz

Base	CAS No.	Name	Availability
R = 2'-O-TBDMS			
A ^{Bz}	104992-55-4	5'-ODMT-2'-OTBDMS-Bz-rA CEP	kg
C ^{Ac}	121058-88-6	5'-ODMT-2'-OTBDMS-Ac-rC CEP	kg
G ^{ibu}	147201-04-5	5'-ODMT-2'-OTBDMS-rG(ibu) CEP	kg
U	118362-03-1	5'-ODMT-2'-OTBDMS-rU CEP	kg
R = 2'-OMe			
A ^{Bz}	110782-31-5	5'-ODMT-2'-OMe-A(Bz) CEP	kg
C ^{Ac}	199593-09-4	5'-ODMT-2'-OMe-C(Ac) CEP	kg
G ^{ibu}	150780-67-9	5'-ODMT-2'-OMe-G(ibu) CEP	kg
U	110764-79-9	5'-ODMT-2'-OMe-U CEP	kg
5-MeC ^{Bz}	251647-54-8	5'-ODMT-2'-OMe-5-Me-C(Bz) CEP	kg
R = 2'-O-MOE			
A ^{Bz}	251647-53-7	5'-ODMT-2'-O-MOE-A (Bz) CEP	kg
5-MeC ^{Bz}	163759-94-2	5'-ODMT-2'-O-MOE-5-Me-C(Bz) CEP	kg
G ^{ibu}	251647-55-9	5'-ODMT-2'-O-MOE-G (ibu) CEP	kg
5-MeU	163878-63-5	5'-ODMT-2'-O-MOE-5-Me-U CEP	kg
R = 2'-F			
A ^{Bz}	136834-22-5	5'-ODMT-2'-F-A (Bz) CEP	kg
C ^{Ac}	159414-99-0	5'-ODMT-2'-F-C (Ac) CEP	kg
G ^{ibu}	144089-97-4	5'-ODMT-2'-F-G (ibu) CEP	kg
G ^{dmf}	N/A	5'-ODMT-2'-F-G (dmf) CEP	kg
U	146954-75-8	5'-ODMT-2'-F-U CEP	kg

UNA Phosphoramidites



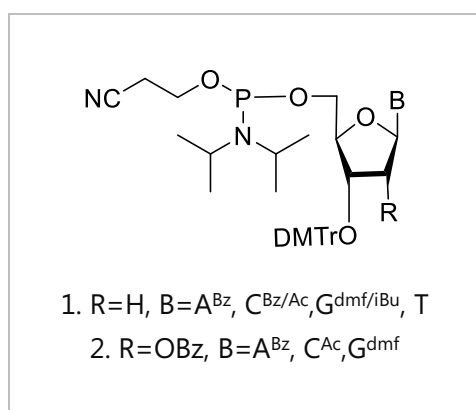
UNA (unlocked nucleic acid) monomers are acyclic derivatives of RNA lacking the C2'-C3'-bond of the ribose ring of RNA.

UNA monomers additively decrease nucleic acid duplex stability and can be positioned strategically to induce either lack of discrimination of mismatches, that is, universal base behavior, or increased discrimination of mismatches, that is, improved hybridization specificity.

Base	A	T	G	C
Protection group	-Bz	--	-dmf	-Ac

Base	CAS No.	Name	Availability
A ^{Bz}	1120329-52-3	5'-ODMT-2'-Bz-UNA-A(Bz)-CEP	grams
T	N/A	5'-ODMT-UNA-T-CEP	grams
G ^{dmf}	1120329-61-4	5'-ODMT-UNA-G(dmf)-CEP	grams
C ^{Ac}	N/A	5'-ODMT-UNA-C(Ac)-CEP	grams

Reverse Phosphoramidites



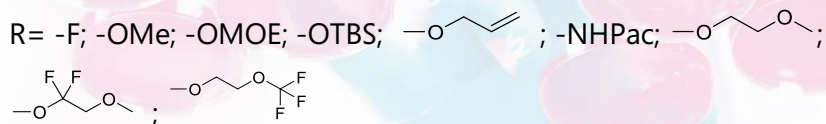
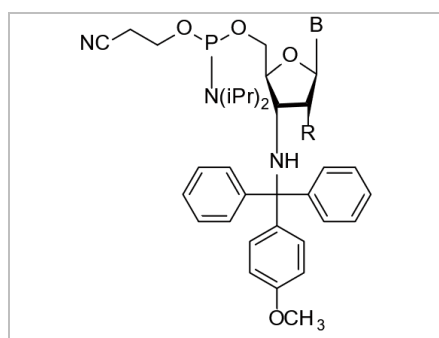
Unlike ordinary phosphoramidites, the phosphoramidite group of reverse phosphoramidite is at the position of 5' in the ribose sugar backbone.

Reverse phosphoramidites are used for reverse RNA synthesis, they can practical and convenient introduction of multiple groups at the 3' -end, such as introduction of ligands, chromophore and modifiers at the 3' -end and *etc.*

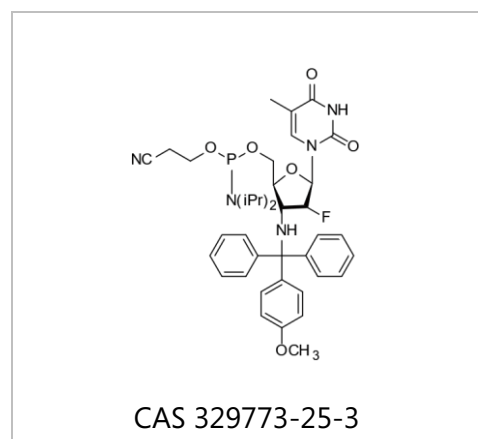
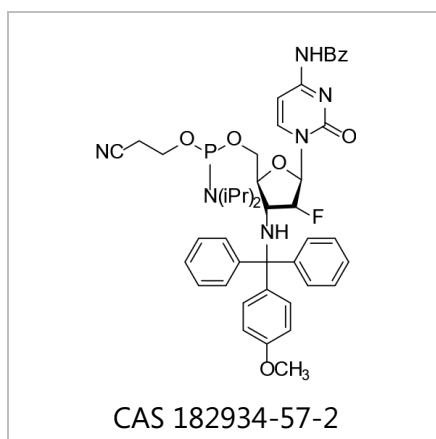
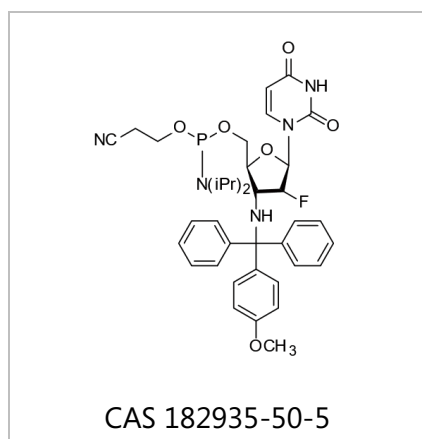
Base	A	T	G	C
Protection group	-Bz	--	-dmf -iBu	-Ac -Bz

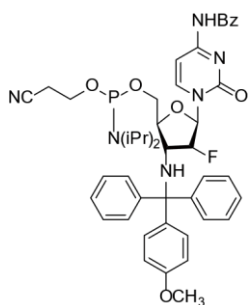
Base	Name	Availability
R=H		
A ^{Bz}	DMT-dA(Bz)-5'-CE Reverse Phosphoramidite	kg
G ^{dmf}	DMT-dG(dmf)-5'-CE Reverse Phosphoramidite	kg
C ^{Bz}	DMT-dC(Bz)-5'-CE Reverse Phosphoramidite	kg
C ^{Ac}	DMT-dC(Ac)-5'-CE Reverse Phosphoramidite	kg
T	DMT-dT-5'-CE Reverse Phosphoramidite	kg
G ^{iBu}	DMT-dG(iBu)-5'-CE Reverse Phosphoramidite	kg
R=OBz		
A ^{Bz}	DMT-A(Bz)-5'-CE Reverse Phosphoramidite	kg
G ^{dmf}	DMT-G(dmf)-5'-CE Reverse Phosphoramidite	kg
C ^{Ac}	DMT-C(Ac)-5'-CE Reverse Phosphoramidite	kg

3'-NH Phosphoramidites

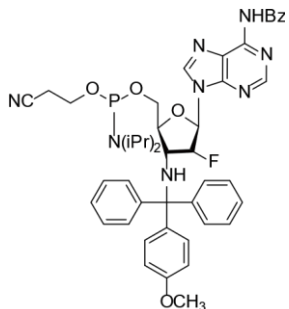


Base	A	T	G	C	U	5-MeC
Protection group	-Bz	--	-dmf -Pac	-Bz	-	-Bz

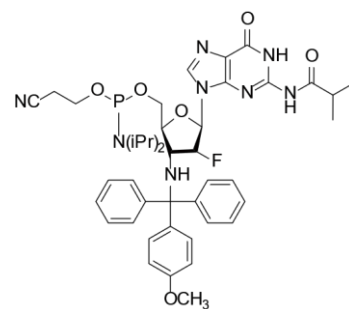




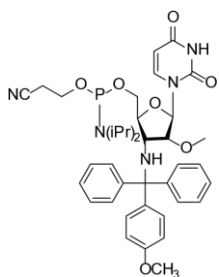
CAS 329773-20-8



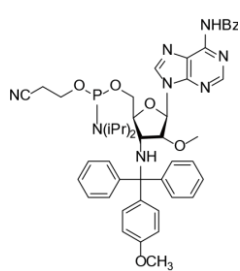
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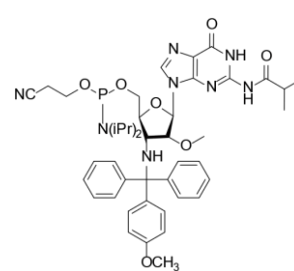
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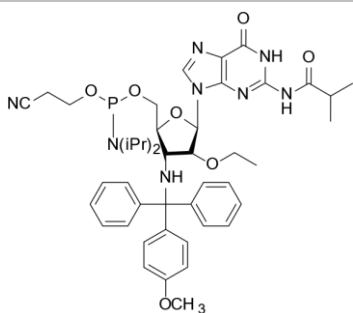
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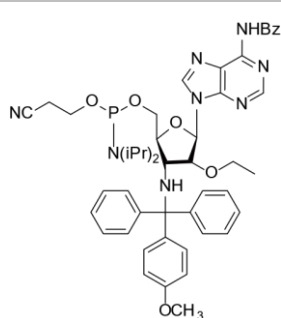
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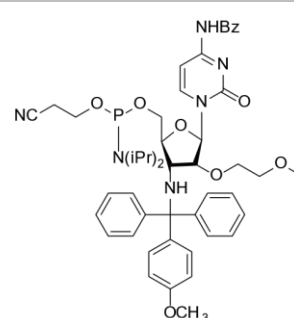
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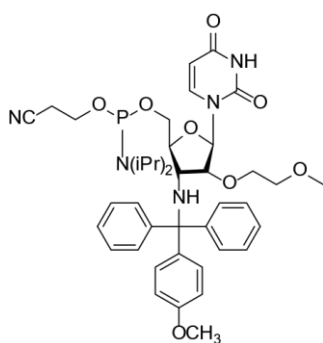
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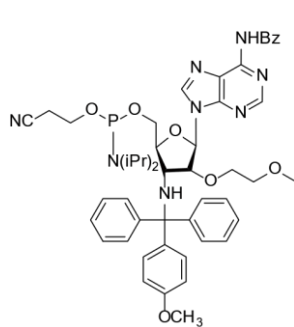
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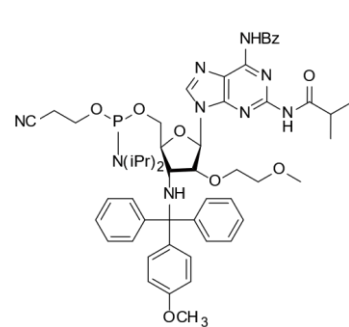
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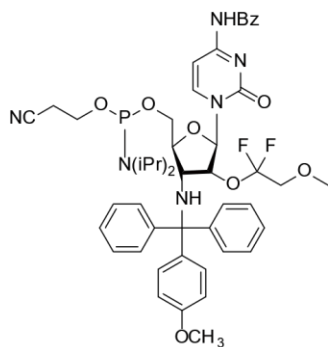
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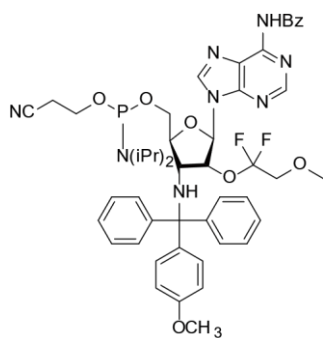
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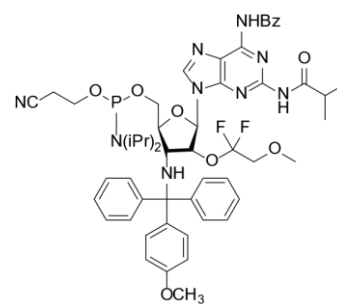
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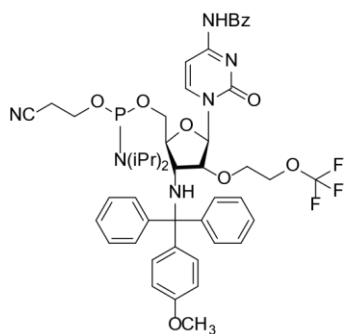
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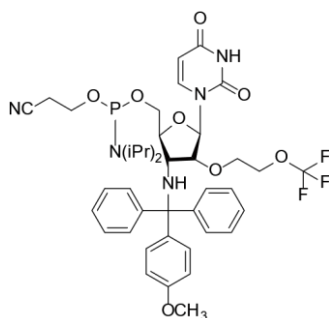
CAS 2299279-70-0



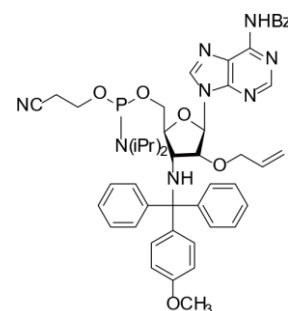
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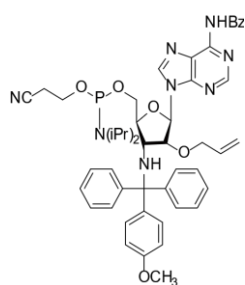
CAS 2299280-93-4



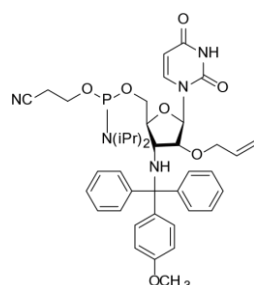
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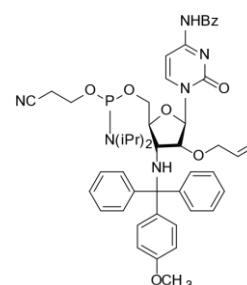
CAS 2299282-94-1



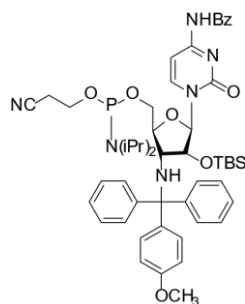
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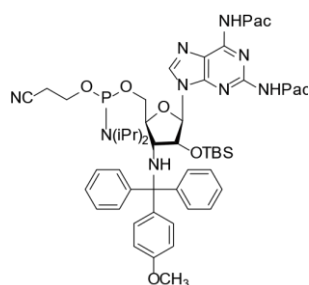
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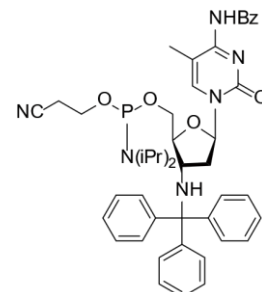
CAS 2299283-53-5



CAS 256485-58-2



CAS 256485-55-9



CAS 195375-70-3

Other Phosphoramidites

Dyes and Quenchers

5'-Fluorescein CE phosphoramidite (6-FAM)	Cy3 MMT CE Phosphoramidite
5'-Hexachloro-Fluorescein CE Phosphoramidite (HEX)	Cy5 MMT CE Phosphoramidite
5'-Tetrachloro-Fluorescein CE Phosphoramidite (6-TET)	TAMRA NHS Ester
5'-Dichloro-dimethoxy-Fluorescein CE Phosphoramidite II (JOE)	3'-TAMRA CPG 1000
3'-(6-Fluorescein) CPG (6-FAM-CPG)	ROX NHS Ester
FAM-dT Phosphoramidite	Qusar670 CE Phosphoramidite
Qusar570 CE Phosphoramidite	5'-Dabcyl Phosphoramidite
Qusar570 NHS Ester	3'-Dabcyl CPG1000
Qusar670 NHS Ester	Eclipse CPG 1000
3'-Qusar570 CPG 1000	5'-QD-1 Phosphoramidite
3'-Qusar670 CPG 1000	5'-QD-2 Phosphoramidite
3'-QD-1 CPG 1000 (BHQ-1 analog)	QD-2-Dt Phosphoramidite
3'-QD-2 CPG 1000 (BHQ-2 analog)	DPI ₃ CPG 1000 (MGB analog)
3'-QD-3 CPG 1000 (BHQ-3 analog)	Methylene Blue NHS Ester
QD-1-Dt Phosphoramidite	AMCA-X SE

Modifiers

5'-Biotin phosphoramidite	DNP CE Phosphoramidite
Biotin CE Phosphoramidite	5'-Cholesteryl CE Phosphoramidite
3'-Biotin-CPG	3'-Cholesteryl-CPG
Biotin TEG Phosphoramidite	Digoxin NHS ester
3'-Biotin-TEG CPG	Acridine Phosphoramidite
Desthiobiotin TEG Phosphoramidite	3'-Acriding CPG 1000
3'-Desthiobiotin TEG CPG	Thiol-Modifier C3 S-S CE Phosphoramidite
Chemical Phosphorylation Reagent I	3'-Thiol-Modifier C6 S-S CPG 1000
3'-Phosphate CPG	5'-Hexynyl Phosphoramidite

Chemical Phosphorylation Reagent II	5'-Carboxy-Modifier C10
Solid Chemical Phosphorylation Reagent II (Solid CPR II)	2',3'-ddC CPG1000
3'-CPR II CPG	Methacrylate C6 Phosphoramidite
5'-Amino-Modifier C3-TFA CE Phosphoramidite	3'-PT-Amino-Modifier C6 CPG 1000
5'-Amino-Modifier C6-TFA CE Phosphoramidite	Spacer Phosphoramidite 18
5'Amino-Modifier C6-MMT CE Phosphoramidite	Spacer Phosphoramidite 9
5'Amino-Modifier C12-MMT CE Phosphoramidite	Spacer C3 CE Phosphoramidite
5'Amino-Modifier 5 CE Phosphoramidite	3'-Spacer C3 CPG
5'-Amino-Modifier C3 PDA	Spacer C12 CE Phosphoramidite
5'-Amino-Modifier C6 PDA	dSpacer CE Phosphoramidite
5'-Amino-Modifier C12 PDA	PC Spacer Phosphoramidite
5'-Amino-Modifier TEG PDA	Amino-Modifier C2 dT
Amino-Modifier C7 CE Phosphoramidite	Amino-Modifier C6 dT
3'-Amino-Modifier C7 CPG 1000	NHS Carboxy dT
3'-PT-Amino-Modifier C3 CPG 1000	3'-Amino-Modifier C6 dT CPG 1000

Modified Frits Column

3'-(6-Fluorescein) frits column	3'-Dabcyf frits column
3'-Qusar570 frits column	3'-Phosphate frits column
3'-Qusar670 frits column	3'-Acridine first column
TAMRA frits column	3'-Cholesteryl frits column
3'-QD-1 frits column	3'-Biotin frits column
3'-QD-2 frits column	2',3'-ddC frits column
3'-QD-3 frits column	3'-Amino-Modifier frits column

Highlight

- Packing options that range from milligram, kilogram to hundreds kilogram quantities
- Guaranteed quality
- Excellent customer service
- Competitive price
- On-time delivery

Excellent customer service

Our skilled and experienced team have developed various phosphoramidites related products. We are happy to provide custom synthesis service according to special requirements by customers.

- Quick quote within 24 hours
- Special customer representatives services to ensure competitive price and prompt delivery

Scale up capability

BOC Sciences with 3 Million sq.ft facility area, has established powerful synthesis and fermentation platforms to produce high-quality chemicals.



Qualified facilities & equipment for process chemistry



Size of Fermentation tanks from 4m³, 10m³, 30m³, 50m³, ..., up to 120 m³

Qualified facilities & equipment of fermentation workshops



Contact Us

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