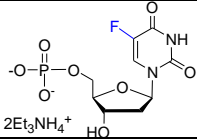
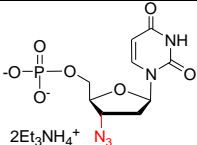
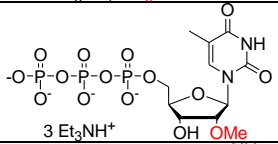
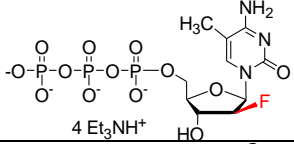
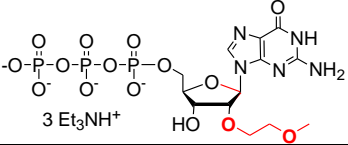
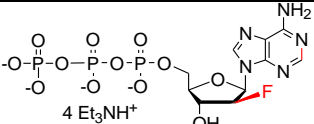
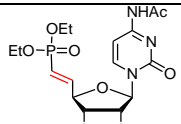
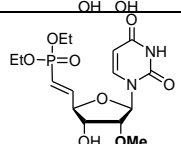
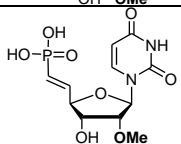
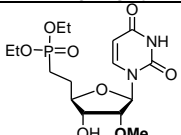
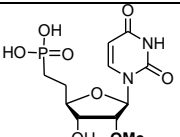
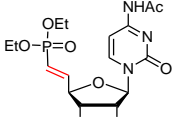
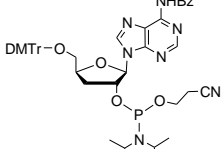
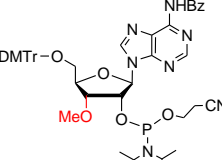
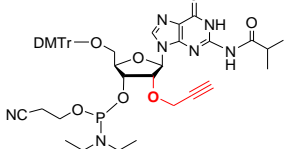
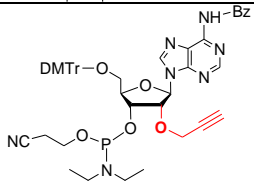
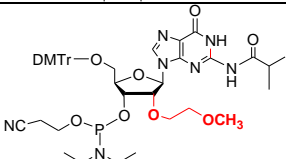
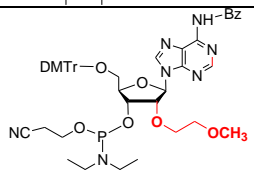
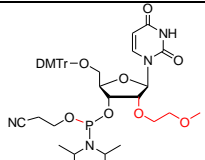
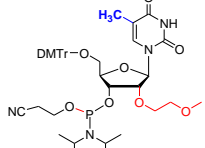
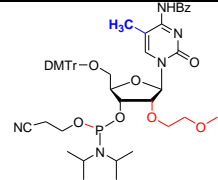
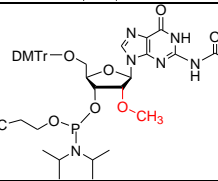
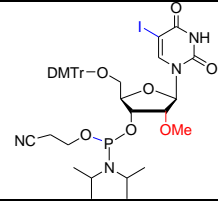
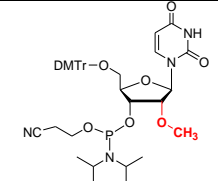
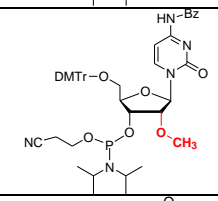
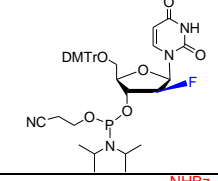
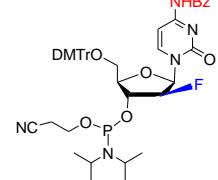
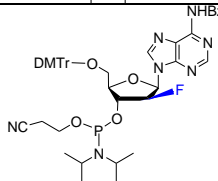
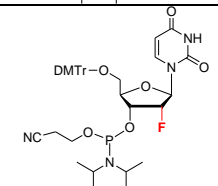


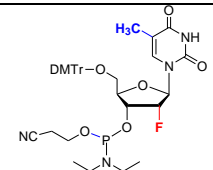
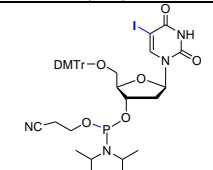
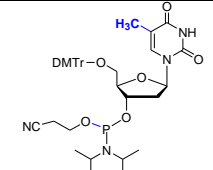
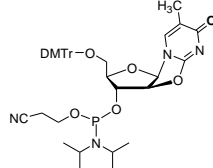
P-Containing Nucleosides at Granlen

Our skilled teams are routinely synthesizing high quality P-containing nucleosides, including mono-phosphates, triphosphates, phosphonates, phosphoramidites and related. We have some of them in stock while most of them are made based on our client's need considering different salt forms desired. Below please see some representative derivatives. Our skilled teams make related derivatives of other modifications on sugar or heterocyclic bases.

GL102265 ; CAS#134-46-3 5F-dUMP; 5-Fluoro-2'-deoxyuridine 5'-phosphate, 2'-Deoxy-5-fluoro-5'-uridylic acid	
GL102266 ; CAS#117783-53-6 3'-N3-ddUMP; 3'-Azido-2',3'-dideoxyuridine 5'-phosphate; 3'-Azido-2',3'-dideoxy-5'-uridylic acid	
GL101099 2'-O-Methyl-5-methyluridine 5'-triphosphate triethylammonium salt	
GL101880 2'-Deoxy-2'-fluoro-5-methyl-araobinocytidine 5'-triphosphate triethyl ammonium salt	
GL101857 2'-O-Methoxyethoxyguanosine 5'-triphosphate triethyl ammonium salt	
GL101921 2'-Fluoro-2'-deoxyadenosine 5'-triphosphate triethyl ammonium salt	
Ready to make other mono- and tri-phosphates	
GL102183 N4-Acetyl-1-[(5E)-5,6-dideoxy-6-(diethoxyphosphinyl)-β-D-ribohex-5-enofuranosyl]uracil	
GL101516 1-[(5E)-5,6-Dideoxy-6-(diethoxyphosphinyl)-2-O-methyl-β-D-ribo-hex-5-enofuranosyl]uracil; And its phosphoramidite	
GL101518 1-[(5E)-5,6-Dideoxy-6-phosphono-2-O-methyl-β-D-ribo-hex-5-enofuranosyl]uracil	
GL101519 1-[6-(Diethoxyphosphinyl)-2-O-methyl-β-D-ribo-hexofuranosyl]uracil; And its phosphoramidite	

GL101520 1-(6-Phosphono-2- <i>O</i> -methyl-β-D-ribo-hexofuranosyl)uracil	
GL102183 N4-Acetyl-1-[(5 <i>E</i>)-5,6-dideoxy-6-(diethoxyphosphinyl)-β-D-ribohex-5-enofuranosyl]uracil	
GL102008 CAS#207347-42-0 3'-Deoxy-A(Bz)-2'-phosphoramidite <i>N</i> ⁶ -Bz-5'- <i>O</i> -DMTr-3'-deoxyadenosine-2'- <i>O</i> -CED-phosphoramidite	
GL102011 CAS#179479-02-8 3'-O-Me-A(Bz)-2'-phosphoramidite <i>N</i> ⁶ -Bz-5'- <i>O</i> -DMTr-3'- <i>O</i> -methyladenosine-2'- <i>O</i> -CED-phosphoramidite	
GL101165 CAS#171486-61-6 2'-O-Propargyl G(iBu)-3'-phosphoramidite <i>N</i> ² -iBu-5'- <i>O</i> -DMTr-2'- <i>O</i> -propargylguanosine-3'-CED-phosphoramidite	
GL101160 CAS#171486-59-2 2'-O-Propargyl A(Bz)-3'-phosphoramidite <i>N</i> ⁶ -Bz-5'- <i>O</i> -DMTr-2'- <i>O</i> -propargyladenosine-3'-CED-phosphoramidite <i>N</i> ⁶ -Benzoyl-5'- <i>O</i> -(4,4'-dimethoxytrityl)-2'- <i>O</i> -propargyladenosine-3'- <i>O</i>	
GL101235 CAS#251647-55-9 2'-MOE-G(iBu)-3'-phosphoramidite 5'- <i>O</i> -DMTr- <i>N</i> ² -iBu-2'- <i>O</i> -MOE-guanosine-3'-CED phosphoramidite	
GL101229 CAS#251647-53-7 2'-O-MOE-A(Bz)-3'-phosphoramidite <i>N</i> ⁶ -Bz-5'- <i>O</i> -DMTr-2'- <i>O</i> -(2-methoxyethyl)adenosine-3'-CED-phosphoramidite	
GL102170 CAS#163759-97-5 2'-O-MOE-U-3'-phosphoramidite 5'- <i>O</i> -DMTr-2'- <i>O</i> -(2-methoxyethyl)-uridine-3'-CED-phosphoramidite	
GL101990 CAS#163878-63-5 2'-O-MOE-5MeU-3'-phosphoramidite 5'- <i>O</i> -DMTr-2'- <i>O</i> -(2-methoxyethyl)-5-methyluridine-3'-CED-phosphoramidite	

<p>GL101995 CAS#163759-94-2 2'-O-MOE-5Me-C(Bz)-3'-phosphoramidite <i>N</i>⁴-Bz-5'-O-DMTr-2'-O-(2-methoxyethyl)-5-methyluridine-3'-CED-phosphoramidite</p>	
<p>GL101173 CAS#150780-67-9 2'-OMe-G(iBu)-3'-phosphoramidite 5'-O-DMTr-<i>N</i>²-iBu-2'-O-Me-guanosine-3'-CED phosphoramidite</p>	
<p>GL102171 CAS#NA 2'-O-Me-5-I-U-3'-phosphoramidite 5'-O-DMTr-2'-O-methyl-5-iodouridine-3'-CEN-phosphoramidite;</p>	
<p>GL100189 CAS#110764-79-9 2'-O-Me-U-3'-phosphoramidite 5'-O-DMTr-2'-O-methyluridine-3'-CEN-phosphoramidite</p>	
<p>GL100305 CAS#110764-78-8 2'-O-Me-C(Bz)-3'-phosphoramidite <i>N</i>⁴-Bz-5'-O-DMTr-2'-O-methylcytidine-3'-CED-phosphoramidite</p>	
<p>GL102175 CAS#1190089-70-3 2'-Fluoro-2'-deoxy-ara-U-3'-phosphoramidite 5'-O-(4,4'-Dimethoxytrityl)-2'-deoxy-2'-fluoro-β-D-arabinouridine-3'-CEN-phosphoramidite</p>	
<p>GL102178 CAS#1404463-12-2 2'-Fluoro-2'-deoxy-ara-C-3'-phosphoramidite <i>N</i>⁴-Benzoyl-5'-O-(4,4'-dimethoxytrityl)-2'-deoxy-2'-fluoro-β-D-arabinouridine-3'-CEN-phosphoramidite</p>	
<p>GL102172 CAS#329187-86-2 2'-Fluoro-2'-deoxy-ara-A-3'-phosphoramidite <i>N</i>⁶-Bz-5'-O-DMTr-2'-fluoro-2'-deoxyarabinoadenosine-3'-CEN-phosphoramidite</p>	
<p>GL100303 CAS#146954-75-8 2'-Fluoro-U-3'-phosphoramidite 5'-O-DMTr-2'-Deoxy-2'-fluorouridine-3'-CED-phosphoramidite</p>	

<p>GL101166 CAS#182700-06-7 2'-Fluoro-5MeU-3-phosphoramidite 5'-O-DMTr-2'-deoxy-2'-fluoro-5-methyluridine-3'-CED-phosphoramidite</p>	
<p>GL100308 CAS#178925-48-9 5-Iodo-dU-3'-phosphoramidite 5'-O-DMTr-5-iodo-2'-dU-3'-CED phosphoramidite</p>	
<p>GL101167 CAS#98796-51-1 T-3'-phosphoramidite 5'-O-DMTr-thymidine-3'-CED phosphoramidite</p>	
<p>GL101208 5-Methylanhydro-U-3'-phosphoramidite 5'-O-(4,4'-Dimethoxytrityl)-5-methyl-2,2'-anhydro-D-uridine-3'-O-[(2-cyanoethyl)(N,N-diisopropyl)] phosphoramidite</p>	

Please visit our website at www.granlen.com or contact *Haoyun (Harry) An* at han@granlen.com additional information