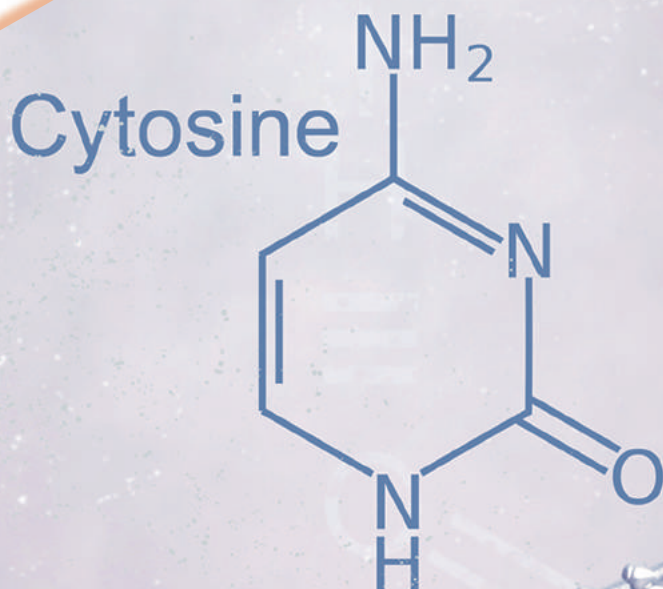


核酸合成试剂

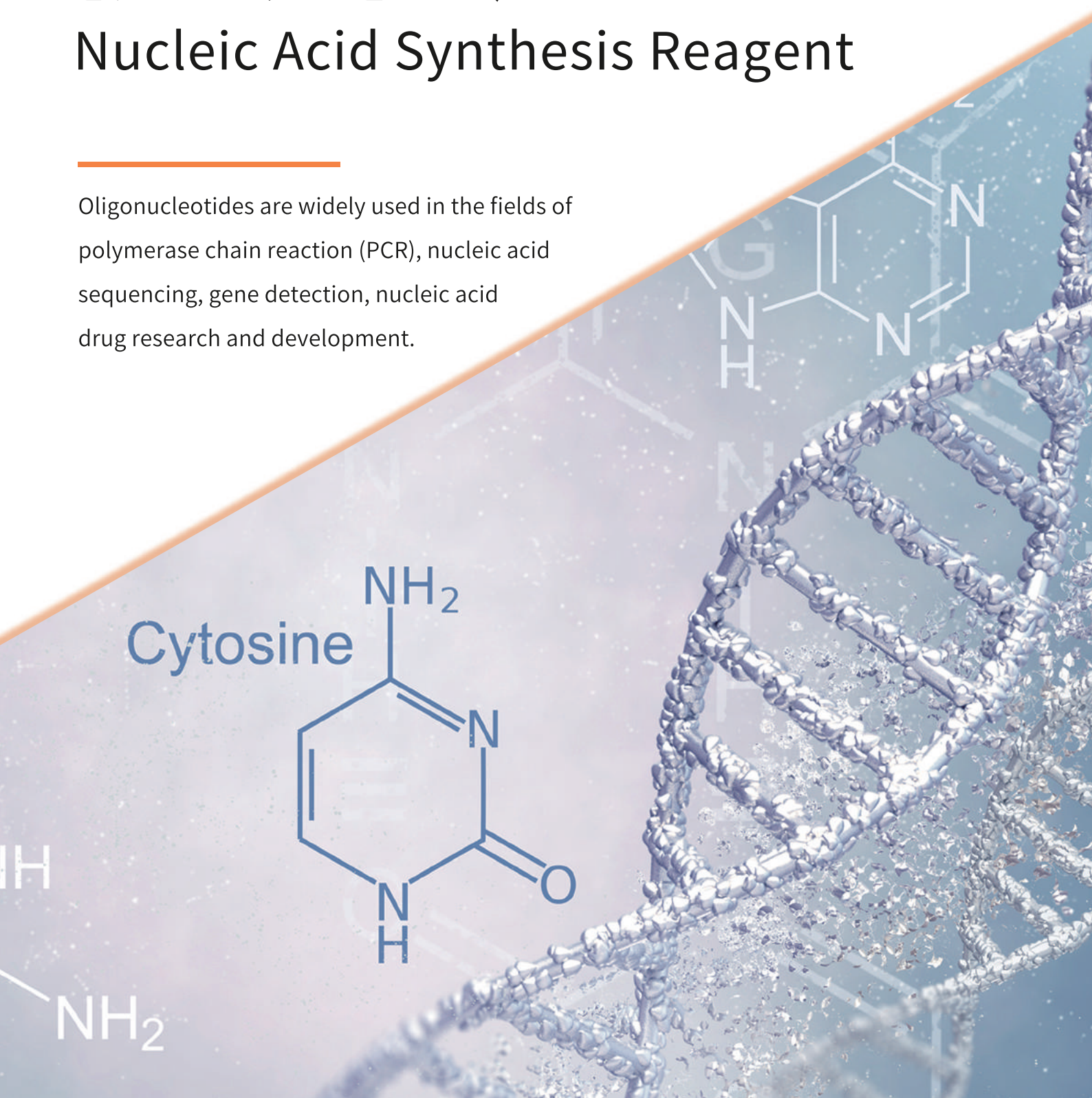
Nucleic Acid Synthesis Reagent

Oligonucleotides are widely used in the fields of polymerase chain reaction (PCR), nucleic acid sequencing, gene detection, nucleic acid drug research and development.



H

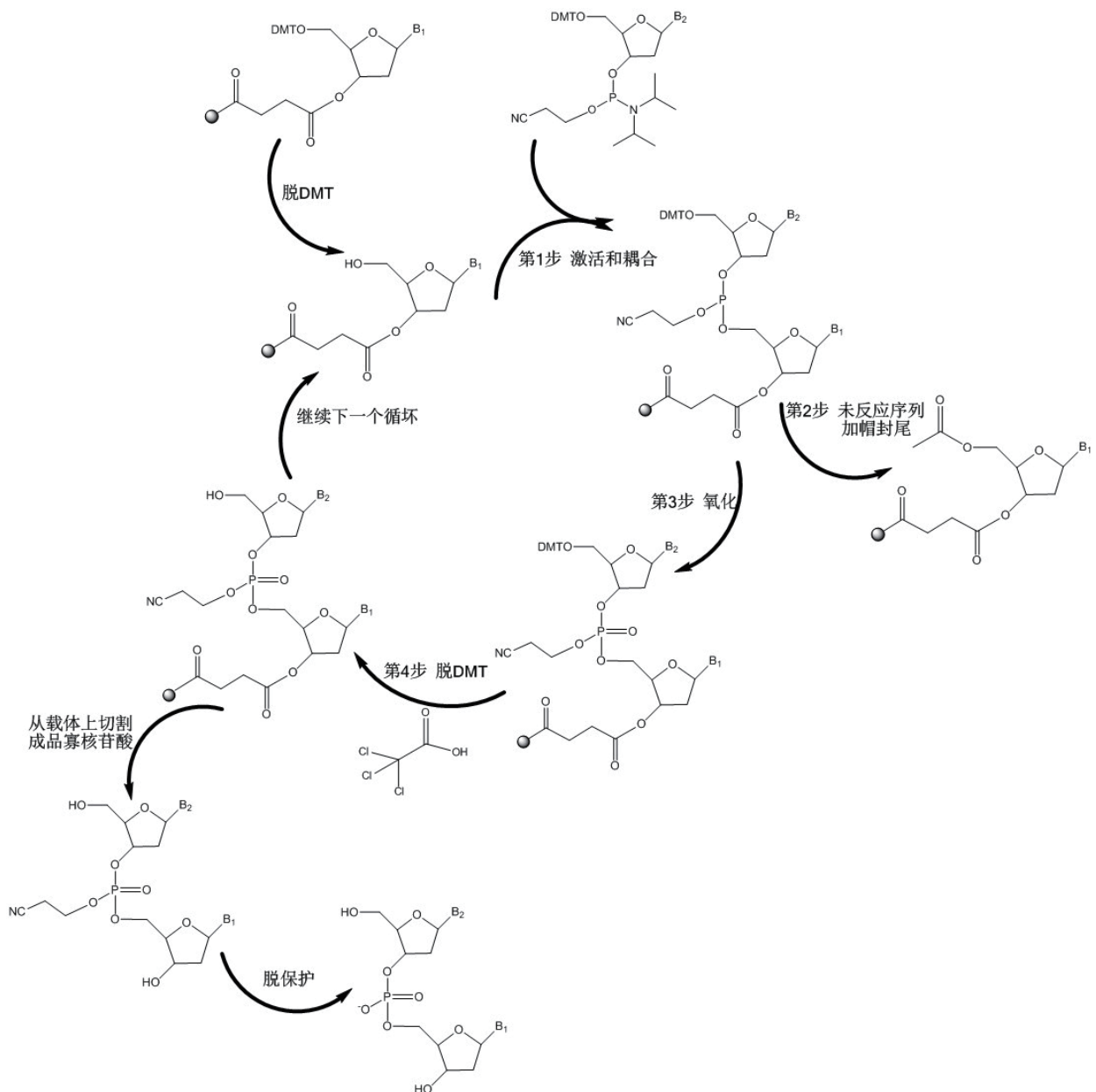
NH₂



核酸合成试剂

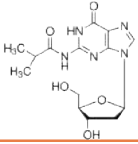
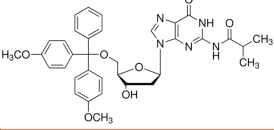
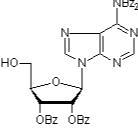
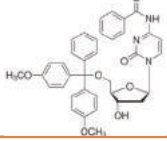
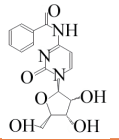
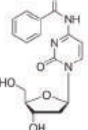
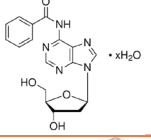
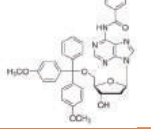
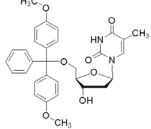
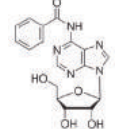
寡核苷酸是短的、单链或双链的DNA或RNA分子。其合成方法发展历程：从Michelson和Todd早期的H-磷酸盐和磷酸三酯法（H-Phosphonate & Phosphotriester）；到1950年代Khorana的磷酸二酯法（Phosphodiester）；以及1960-1970年代的磷酸三酯法（Phosphotriester）和亚磷酸三酯法（Phosphite triester）的发展。而直至1980年代，Marvin Caruthers的亚磷酰胺法（Phosphoramidite），加上自动化固相技术，成为了目前主流的寡核苷酸合成技术方法。在聚合酶链反应(PCR)、核酸测序、基因检测、核酸药物研发等领域有广泛应用。

亚磷酰胺寡聚体的合成在3'-5'方向进行(与生物合成中DNA复制的5'-3'方向相反)。每个合成周期添加一个核苷酸。亚磷酰胺DNA合成循环如图所示。

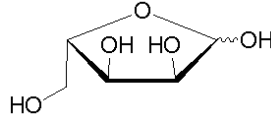


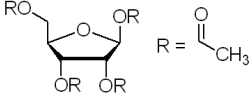
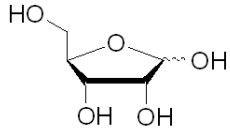
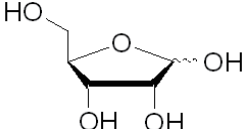
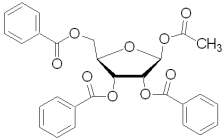
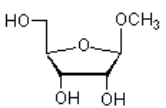
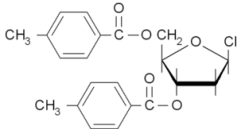
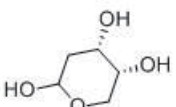
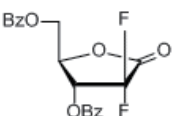
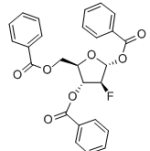
亚磷酰胺DNA合成循环

保护核苷

产品号	产品描述	英文描述	级别	Cas	规格
I119475	 N2-异丁酰基-2'-脱氧鸟苷	N2-Isobutyryl-2' -deoxyguanosine	98%	68892-42-2	100mg,250mg,1g,5g
I119519	 5'-O-(4,4'-二甲氧基三苯基)-N2-异丁酰基-2'-脱氧鸟苷	N2-Isobutyryl-5' -O-(4,4' -dimethoxytrityl)-2' -deoxyguanosine	99.00%	68892-41-1	1g,5g,10g,25g,100g
N159691	 N6-二苯甲酰基腺苷-2',3'-二苯甲酸酯	N6-Dibenzoyladenine 2',3'-Dibenzoate	>98.0% (HPLC)(T)	58463-04-0	100mg,1g
B119471	 N4-苯甲酰基-5'-O-(4,4'-二甲氧基三苯基)-2'-脱氧胞苷	N4-Benzoyl-5' -O-(4,4' -dimethoxytrityl)-2' -deoxycytidine	99%	67219-55-0	1g,5g
B103100	 N4-苯甲酰胞苷	N4-Benzoylcytidine	98%	13089-48-0	1g,5g,25g
B119532	 N4-苯甲酰基-2'-脱氧胞苷	N4-Benzoyl-2' -deoxycytidine	98.00%	4836-13-9	250mg,1g,5g
B122954	 N6-苯甲酰基-2'-脱氧腺苷水合物	N6-Benzoyl-2' -deoxyadenosine hydrate	98%	206752-42-3, 4546-72-9	250mg,1g,5g
B119470	 N6-苯甲酰基-5'-O-(4,4'-二甲氧基三苯基)-2'-脱氧腺苷	N6-Benzoyl-5' -O-(4,4' -dimethoxytrityl)-2' -deoxyadenosine	99%	64325-78-6	100mg,1g,5g
O117684	 5'-O-(4,4'-二甲氧基三苯基)胸苷	5' -O-(4,4' -Dimethoxytrityl) thymidine	98.00%	40615-39-2	1g,5g,25g
B119477	 N-苯甲酰腺苷	N-Benzoyladenine	97%	4546-55-8	1g,5g,25g

核糖, 2'-脱氧核糖

产品号	产品描述	英文描述	级别	Cas	规格
R105972	 L-核糖	L-(+)-Ribose	98%	24259-59-4	1g,5g,10g,25g,100g

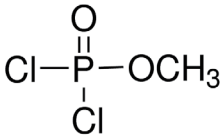
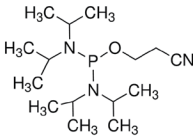
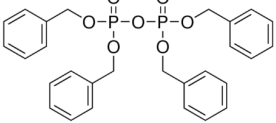
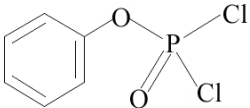
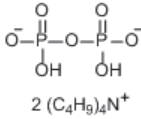
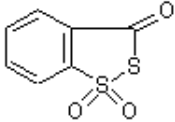
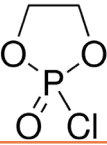
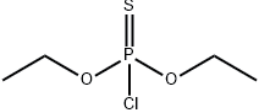
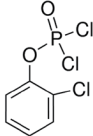
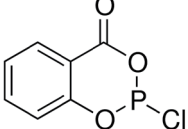
产品号	产品描述	英文描述	级别	Cas	规格
T107915	 四乙酰核糖 R = CH_3CO	1,2,3,5-Tetra-O-acetyl- β -D-ribofuranose	98%	13035-61-5	5g,25g,100g,500g
R104821	 D-(-)-核糖	D-(-)-Ribose	$\geq 99\%$ (HPLC)	50-69-1	5g,25g,100g, 250g,500g
R104820	 D-(-)-核糖	D-(-)-Ribose	98%	50-69-1	100g,500g,2.5Kg
R103230	 1-乙酰基-2,3,5-三苯甲酰氧基- β -D-呋喃核糖	β -D-Ribofuranose 1-acetate 2,3,5-tribenzoate	98%	6974-32-9	1g,5g,25g,100g
M158368	 甲基- β -D-呋喃核糖苷	Methyl β -D-Ribofuranoside	$>97.0\%$ (HPLC)	7473-45-2	1g,5g,25g,100g
D121077	 3,5-二-O-(对甲苯酰)-2-脱氧-A-D-呋喃核糖氯	3,5-Di-O-(p-toluyloxy)-2-deoxy-D-ribofuranosyl chloride	90%	4330-21-6	250mg
D104784	 2-脱氧-D-核糖	2-Deoxy-D-Ribose	98%	533-67-5	1g,5g,25g,100g
D123989	 2-脱氧-2,2-二氟-D-赤-戊糖酸- γ -内酯 3,5-二苯甲酸酯	2-Deoxy-2,2-difluoro-D-erythro-pentonic Acid γ -Lactone 3,5-Dibenzoate	98%	122111-01-7	1g,5g,25g,100g
T139496	 2-脱氧-2-氟-1,3,5-三-O-苯甲酰基- α -D-阿拉伯呋喃糖	2-Deoxy-2-fluoro-1,3,5-tri-O-benzoyl- α -D-arabinofuranose		97614-43-2	1g,5g,25g

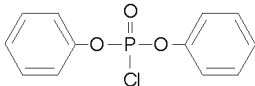
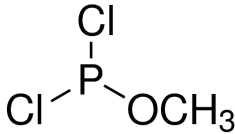
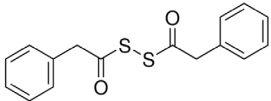
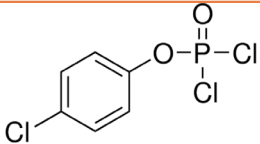
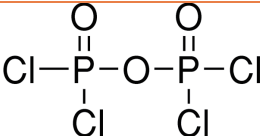
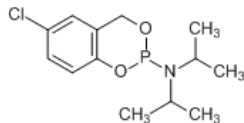
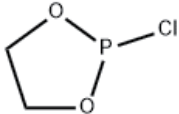
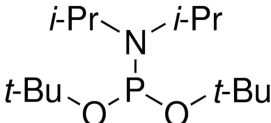
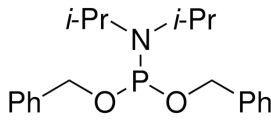
硫转移试剂

产品号	产品描述	英文描述	级别	Cas	规格
X162986	 氢化黄原素	Xanthane Hydride	$>95.0\%$ (HPLC)	6846-35-1	5g,25g,100g,500g
H157193	 3H-1,2-苯并二硫醇-3-酮 1,1-二氧化物	3H-1,2-Benzodithiol-3-one 1,1-Dioxide	$>98.0\%$ (HPLC)	66304-01-6	250mg,1g,5g

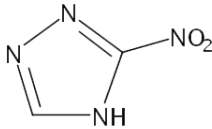
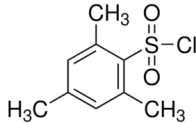
产品号	产品描述	英文描述	级别	Cas	规格
B152485	 双(苯乙酰)二硫化物	Bis(phenylacetyl) Disulfide	>98.0% (HPLC)	15088-78-5	5g,25g

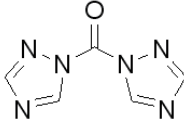
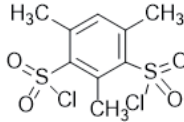
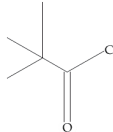
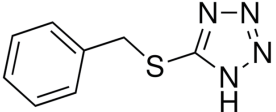
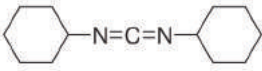
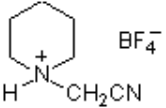
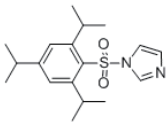
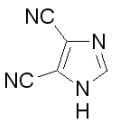
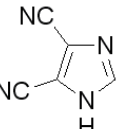
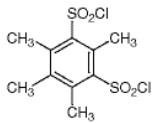
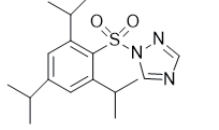
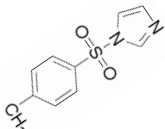
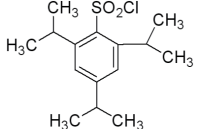
磷酸化试剂, 磷硫化试剂

产品号	产品描述	英文描述	级别	Cas	规格
M157887	 二氯磷酸甲酯	Methyl Phosphorodichloridate	>95.0%(T)	677-24-7	5g,25g,100g
C119480	 2-氰乙基 N,N,N',N'-四异丙基亚磷酰二胺	2-Cyanoethyl N,N,N',N'-tetraisopropylphosphordiamidite	97%	102691-36-1	1g,5g,25g,100g
T162687	 焦磷酸四苄酯	Tetrabenzyl Pyrophosphate	>98.0% (HPLC)	990-91-0	250mg,1g,5g,25g
P104277	 二氯化磷酸苯酯	Phenyl dichlorophosphate	98%	770-12-7	25g,100g,500g
B152354	 二(四丁铵)焦磷酸二氢盐	Bis(tetrabutylammonium) Dihydrogen Pyrophosphate	>96.0%(T)	857447-79-1	50mg,200mg
H157193	 3H-1,2-苯并二硫醇-3-酮 1,1-二氧化物	3H-1,2-Benzodithiol-3-one 1,1-Dioxide	>98.0% (HPLC)	66304-01-6	250mg,1g,5g
C135875	 2-氯-1,3,2-二氧杂环戊烷 2-氧化物	2-Chloro-1,3,2-dioxaphospholane-2-oxide	≥ 95.0%	6609-64-9	5g,25g,100g
D156020	 氯硫代磷酸二乙酯	Diethyl Chlorothiophosphate	>97.0%(GC)	2524-04-1	5g,25g,100g
C154011	 2-氯苯基二氯磷酸酯 [磷酸化剂]	2-Chlorophenyl Phosphorodichloridate [Phosphorylating Agent]	>97.0%(T)	15074-54-1	1g,5g,25g,100g
C154013	 2-氯-4H-1,3,2-苯并二氧磷-4-酮	2-Chloro-4H-1,3,2-benzodioxaphosphorin-4-one	>95.0%	5381-99-7	1g,5g,25g

产品号	产品描述	英文描述	级别	Cas	规格	
D109475		氯代磷酸二苯酯	Diphenyl phosphoryl chloride	97%	2524-64-3	25g,100g,500g
M157888		二氯亚磷酸甲酯 [亚磷酸化剂]	Methyl Dichlorophosphite [Phosphitylating Agent]	>95.0%(T)	3279-26-3	5g,10g,25g,100g
B152485		双(苯乙酰)二硫化物	Bis(phenylacetyl) Disulfide	>98.0% (HPLC)	15088-78-5	5g,25g
C154012		4-氯苯基二氯磷酸酯	4-Chlorophenyl Phosphorodichloridate	>97.0%(T)	772-79-2	5g,25g,100g
D110276		焦磷酸氯	Diphosphoryl chloride	97%	13498-14-1	5g,25g,100g,500g
C153709		5-氯水杨基-N,N-二异丙基亚磷酸胺	5-Chlorosaligenyl-N,N-diisopropylphosphoramidite	>95.0% (HPLC)	1620086-77-2	200mg,1g
C154014		2-氯-1,3,2-二氧磷杂环戊烷	2-Chloro-1,3,2-dioxaphospholane	>97.0%(GC)	822-39-9	5g,25g,100g
D138186		N,N-二异丙基亚磷酸胺二叔丁酯	Di-tert-butyl N,N-diisopropylphosphoramidite	≥ 95.0%	137348-86-8	1g,5g
D122720		二苄基 N,N-二异丙基亚磷酸胺	Dibenzyl N,N-Diisopropylphosphoramidite	98%	108549-23-1	1g,5g,25g,100g

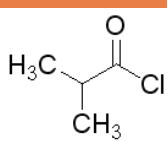
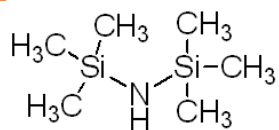
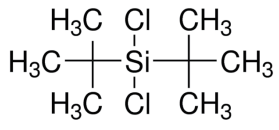
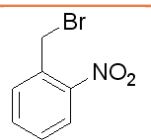
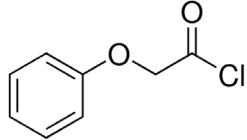
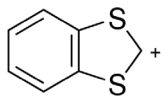
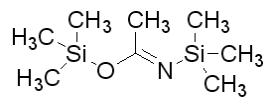
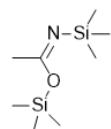
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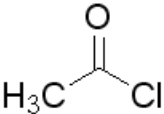
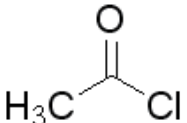
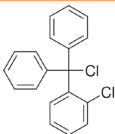
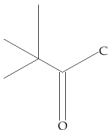
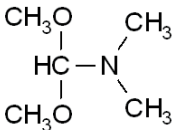
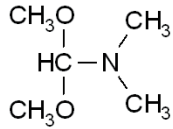
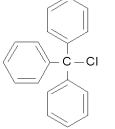
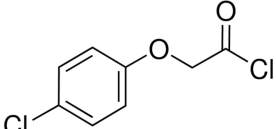
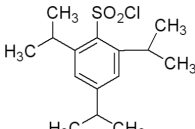
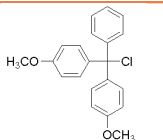
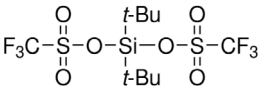
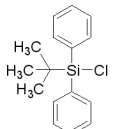
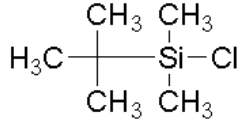
产品号	产品描述	英文描述	级别	Cas	规格	
N132858		3-硝基-1,2,4-三唑	3-Nitro-1, 2, 4-triazole	≥ 98.0% (HPLC)	24807-55-4	1g,5g,25g,100g
M121621		均三甲苯基磺酰氯	2-Mesitylenesulfonyl chloride	99%	773-64-8	5g,25g,100g,500g

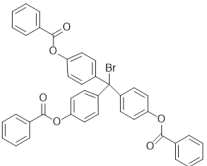
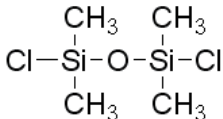
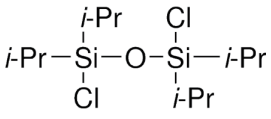
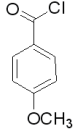
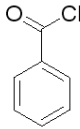
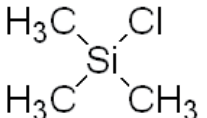
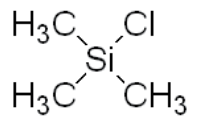
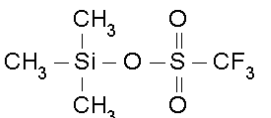
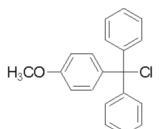
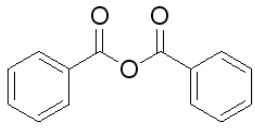
产品号	产品描述	英文描述	级别	Cas	规格
C113337	 N,N'- 羰基二 (1,2,4- 三氮唑)	1,1'-Carbonyl-di-(1,2,4-triazole)	96%	41864-22-6	5g,25g,100g
M135672	 2,4- 二磺酰氯基均三甲苯	2,4-Mesitylenedisulfonyl Dichloride	≥ 98.0%	68985-08-0	5g,25g
T109597	 特戊酰氯	Trimethylacetyl chloride	98%	3282-30-2	25ml,100ml,500ml,2.5L,10L
B115197	 5- 苄硫基四氮唑	5-(Benzylthio)-1H-tetrazole	98.50%	21871-47-6	5g,25g,100g
D106074	 N,N'- 二环己基碳二亚胺 (DCC)	N,N' - Dicyclohexylcarbodiimide	99.00%	538-75-0	25g,100g,500g,1kg,2.5kg,10kg
C153419	 1-(氰甲基) 哌啶四氟硼酸盐	1-(Cyanomethyl) piperidinium Tetrafluoroborate	>98.0%(N)	434937-12-9	1g,5g
T113353	 1-(2,4,6- 三异丙基苯基磺酰) 咪唑	1-(2,4,6-Triisopropylbenzenesulfonyl)imidazole	98%	50257-40-4	1g,5g,10g,25g
D109319	 4, 5- 二氰基咪唑	4,5-Dicyanoimidazole	98%	1122-28-7	5g,25g,100g
D109320	 4, 5- 二氰基咪唑	4,5-Dicyanoimidazole	99%	1122-28-7	5g,25g,100g
T161612	 2,4,5,6- 四甲基苯二磺酰二氯	2,4,5,6-Tetramethylbenzenedisulfonyl Dichloride	>98.0%(T)	97997-76-7	1g,5g
T138965	 1-(2,4,6- 三异丙基苯磺酰)-1,2,4- 三唑	1-(2,4,6-Triisopropylphenylsulfonyl)-1,2,4-triazole	>98.0% (HPLC)	54230-60-3	1g,5g,25g
T106183	 1- 对甲基苯磺酰咪唑	1-(p-Toluenesulfonyl)imidazole	99%	2232-08-8	5g,25g,100g,500g
T109341	 2,4,6- 三异丙基苯磺酰氯	2,4,6-Triisopropylbenzene sulfonyl chloride	97%	6553-96-4	5g,25g,100g,500g

产品号	产品描述	英文描述	级别	Cas	规格
D105651	 N,N'-二环己基-4-吗啉脒	N,N'-Dicyclohexyl-4-morpholinecarboxamide	98%	4975-73-9	1g,5g,25g,100g
T100645	 1,2,4-三氮唑	1,2,4-Triazole	99%	288-88-0	5g,25g,100g,500g
E111310	 5-乙硫基四氮唑	5-(Ethylthio)-1H-tetrazole	98%	89797-68-2	5g,25g,100g,500g

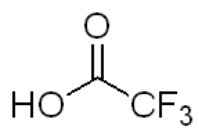
磷酸化试剂, 磷硫化试剂

产品号	产品描述	英文描述	级别	Cas	规格
I107549	 异丁酰氯	Isobutyryl Chloride	98%	79-30-1	25ml,100ml,500ml,2.5L
H106017	 六甲基二硅胺烷	Hexamethyl disilylamine	AR,98%	999-97-3	100ml,500ml,2.5L,10L
D154192	 二叔丁基二氯硅烷	Di-tert-butyl dichlorosilane	>95.0%(GC)	18395-90-9	1g,5g
N106603	 2-硝基溴化苄	2-Nitrobenzyl bromide	97%	3958-60-9	5g,25g,100g
P160117	 苯氧基乙酰氯	Phenoxyacetyl Chloride	>98.0%(GC)	701-99-5	25g,100g,500g
B152896	 + BF ₄ ⁻ 1,3-苯并二硫代吡咯四氟化硼盐 [羟基保护剂]	1,3-Benzodithiolium Tetrafluoroborate [Hydroxyl-Protecting Agent]	>96.0%(T)	57842-27-0	1g,5g
T109041	 N,O-双(三甲基硅烷基)乙酰胺	N,O-Bis(trimethylsilyl)acetamide	95%	10416-59-8	25ml,100ml,500ml,5L
T131644	 N,O-双(三甲基硅烷基)乙酰胺	TMS-BA	用于 GC 衍生化	10416-59-8	5ml,25ml

产品号	产品描述	英文描述	级别	Cas	规格	
A108664		乙酰氯	Acetyl chloride	99%, 无色	75-36-5	500ml,2.5L
A108662		乙酰氯	Acetyl chloride	AR,98%	75-36-5	100ml,500ml, 12*500ml,2.5L,10L
C134968		2-氯代三苯甲基氯	2-Chlorotrityl Chloride	≥ 97.0%	42074-68-0	25g,100g,500g,2.5kg
T109597		特戊酰氯	Trimethylacetyl chloride	98%	3282-30-2	25ml,100ml, 500ml,2.5L,10L
D106289		N,N-二甲基甲酰胺二甲缩醛	DMF-DMA	98%, 用于酯化	4637-24-5	25g,100g,500g
D106288		N,N-二甲基甲酰胺二甲缩醛	N,N-Dimethylformamide Dimethyl Acetal	97%	4637-24-5	25ml,100ml,500ml
T106184		三苯基氯甲烷	Trityl Chloride	97%	76-83-5	25g,100g,250g, 500g,2.5kg
C153889		4-氯苯氧基乙酰氯	4-Chlorophenoxyacetyl Chloride	>98.0%(T)	4122-68-3	5g,10g,25g, 100g,500g
T109341		2,4,6-三异丙基苯磺酰氯	2,4,6-Triisopropylbenzene sulfonyl chloride	97%	6553-96-4	5g,25g,100g,500g
D109292		4,4'-二甲氧基三苯基氯甲烷	4,4'-Dimethoxytrityl chloride	>97.0%	40615-36-9	5g,25g,100g,500g
D119481		二叔丁基硅基双(三氟甲烷磺酸)	Di-tert-butylsilyl bis(trifluoromethanesulfonate)	97%	85272-31-7	1g,5g,25g
B111191		叔丁基二苯基氯硅烷	tert-Butyldiphenylchlorosilane	98%	58479-61-1	10g,25g,100g,250g
B103644		叔丁基二甲基氯硅烷	tert-Butyldimethylsilyl chloride	97%	18162-48-6	25g,100g,250g,500g

产品号	产品描述	英文描述	级别	Cas	规格
T162634	 4,4',4''-三(苯酰氧基)三苯甲基溴 [羟基保护剂]	4,4',4''-Tris(benzyloxy)trityl Bromide [Hydroxyl Protecting Agent]	>97.0%(T)	86610-66-4	1g,5g,25g
D113529	 1,3-二氯四甲基二硅氧烷	1,3-Dichloro-1,1,3,3-tetramethyldisiloxane	95%	2401-73-2	5g,25g,100g
D139183	 1,3-二氯-1,1,3,3-四异丙基二硅氧烷	1,3-Dichloro-1,1,3,3-tetraisopropylidisiloxane	≥ 97%	69304-37-6	1g,5g,25g,100g
M100611	 4-甲氧基苯甲酰氯	4-Methoxybenzoyl chloride	97%	100-07-2	25g,100g,500g
B104566	 苯甲酰氯	Benzoyl chloride	ACS, ≥ 99.0% (T)	98-88-4	500g
C104814	 三甲基氯硅烷 (TMCS)	Chlorotrimethylsilane	≥ 99.0%(GC)	75-77-4	100ml,250ml, 500ml,2.5L,10L
C104813	 三甲基氯硅烷 (TMCS)	Chlorotrimethylsilane	>98.0%(GC)	75-77-4	100ml,250ml, 500ml,2.5L,10L
T106616	 三氟甲磺酸三甲基硅酯	Trimethylsilyl trifluoromethanesulfonate	98.00%	27607-77-8	5g,10g,25g,50g, 100g,250g,500g
M113503	 4-甲氧基氯化三苯甲烷	4-Monomethoxytrityl chloride	97%	14470-28-1	5g,10g,25g, 100g,250g
B104818	 苯甲酸酐	Benzoic anhydride	98%	93-97-0	25g,100g,500g

脱保护剂

产品号		产品描述	英文描述	级别	Cas	规格
T103291		三氟乙酸 (TFA)	Trifluoroacetic acid	AR,99.0%	76-05-1	100g,500g,2.5kg
H107501		六氟异丙醇	1,1,1,3,3,3-Hexafluoro-2-propanol	99.50%	920-66-1	25g,100g,250g,500g,2.5kg



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