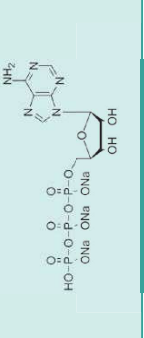
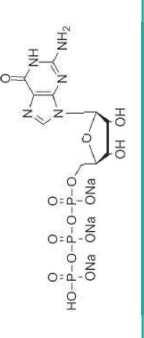
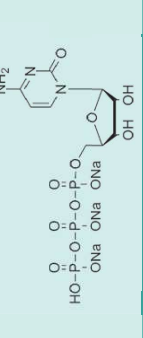
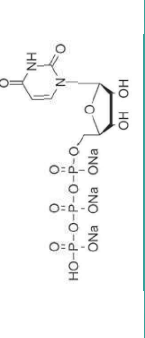
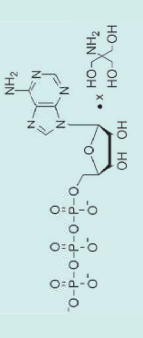
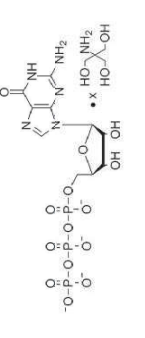
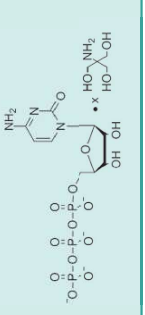
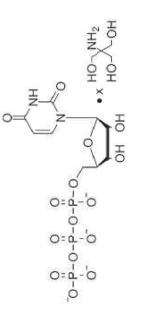
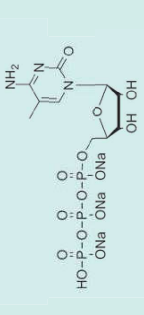
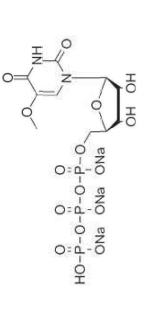
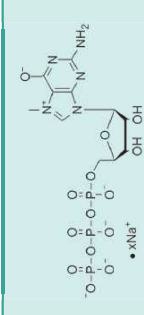
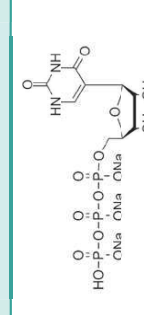
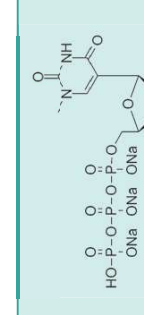


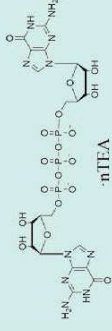
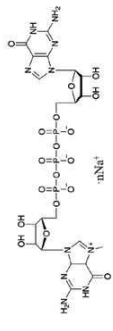
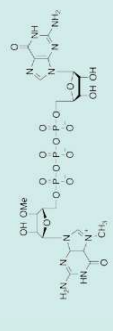
NTPs and derivatives

Catalog No.	Product Name	mM/L	Structure
MR-1001	ATP sodium solution	100	
MR-1002	GTP sodium solution	100	
MR-1003	CTP sodium solution	100	
MR-1004	UTP sodium solution	100	
MR-1005	ATP Tris solution	100	
MR-1006	GTP Tris solution	100	

Nucleosides

MR-1007	CTP Tris solution	100	
MR-1008	UTP Tris solution	100	
MR-2001	5-Me-CTP	100	
MR-2002	5-OMe-UTP	100	
MR-2003	N7-Me-GTP	100	
MR-3001	Pseudo UTP sodium solution	100	
MR-3002	N1-Me-Pseudo UTP sodium solution	100	

Cap structure and analogs

Catalog No.	Product Name	mM/L	Structure
CA-1001	GpppG	100	
CA-1002	M7-GpppG	100	
CA-1003	ARCA	100	

More structure welcome to consult.

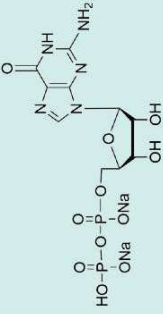
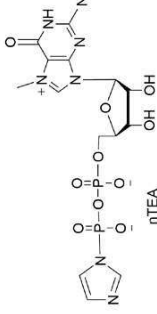
Key intermedia for the synthesis of CleanCap®

Product introduction

CleanCap® technology is a proprietary, co-transcriptional 5' capping solution that generates a natural Cap 1 structure patented by Trilink Biotechnologies. Proper mRNA capping is critical to the production of the most biologically active and least immunogenic mRNA. CleanCap is efficient, elicits high yields of capped mRNA, and provides the highest quality mRNA 5' cap structure available today.

Glycogene has a core research and manufacturing team with more than 150 employees, which specializes in the synthesis nucleotides, nucleosides, phosphoramidites, glyco-related products.

Herein, we produce key blocks for the synthesis of CleanCap® in kg scale. We do hope our service and products can accelerate your production of CleanCap®.

Catalog No.	Product Name	Structure
CM-1001	GDP	
CM-1002	M7-GDP-IMZ	

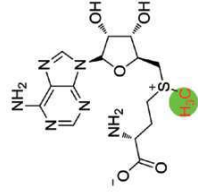
Catalog No.	Product Name	Structure
CM-1003	3'OMe-GDP	
CM-1004	M7-GDP-IMZ(3'OMe)	
CM-1005	(2'OMe-5'P-A)pG	
CM-1006	(2'OMe-5'P-A)pU	
CM-1007	(2'OMe-5'P-G)pG	

SAM

S-adenosylmethionine(SAM)

Product introduction

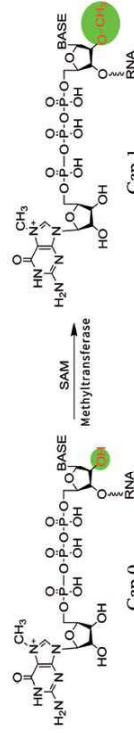
S-Adenosylmethionine is the most important methyl donor in vivo and an auxiliary substrate involved in methyl transfer reaction. In the synthesis of mRNA in vitro, both the hydroxyl group of ribose and the amino group of base need the participation of SAM during methylation.



Structure of SAM

Product performance

The SAM of our company is prepared in 0.005M and 10% EtOH solution, filtered to provide in the form of aseptic liquid. In the process of mRNA capping, the combination of SAM and methyltransferase can transform the Cap0 structure of the 5' cap region into Cap1 structure.



Item	Purity (HPLC)	Concentration	Endotoxin	Endonuclease/exonuclease	Microbial residue	(LVT)
Result	>75%(S.S)	32mM+2mM	<1 EU/ml	Qualified	Qualified	Qualified

Order information

Catalog No.	Product Name	Package
SA-1001	(S-Adenosyl methionine,SAM) (32mM)	1, 20, 100, 500ml

GalNAc delivery molecule / drug synthesis service

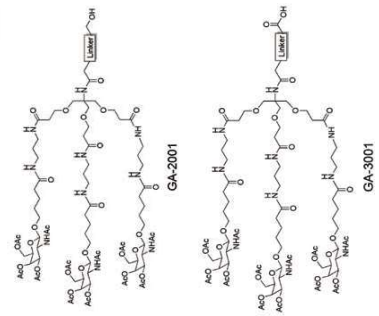
Background introduction

At present, siRNA drug pipeline is rich and has great prospects, and the demand for delivery system is also increasing day by day. ASGPR receptor specifically expressed on the surface of hepatocytes can specifically bind to the trigeminal GalNAc molecule. Based on this, drug molecules with the trigeminal structure of GalNAc (including small molecule drugs, monoclonal antibodies and siRNA) can be delivered to the liver.

Technical advantages

Based on our many years of experience in the field of sugar science, we have built a mature GalNAc delivery molecular synthesis platform, which can provide you with customized synthesis services of various GalNAc delivery molecules, and also provide you with a complete solution of GalNAc liver targeted drugs.

Product structure

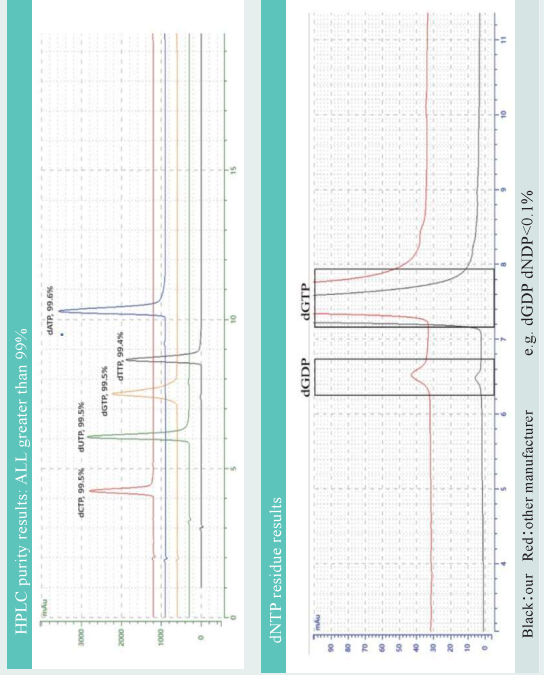


High purity dNTPs assisted nucleotides diagnosis Deoxy-Ribonucleoside Triphosphate

Product superiority

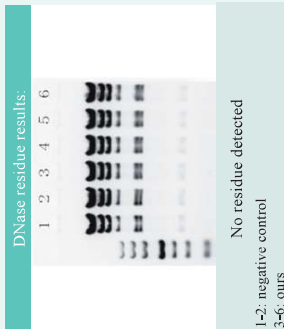
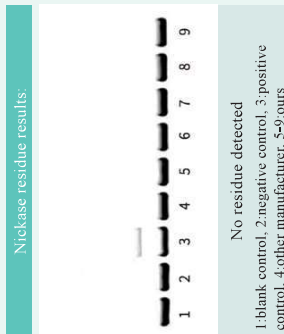
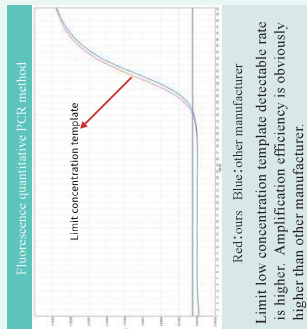
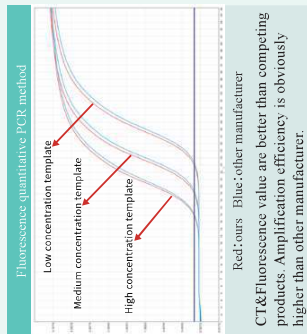
- All 5 dNTPs show greater than 99% purity (HPLC)
- No DNase, RNase contamination and no heavy metal residue
- No human DNA, bacterial DNA contamination detected

Test data



Large scale synthesis of Pseudouridine related products

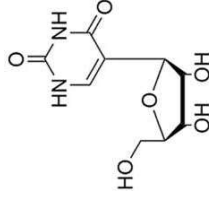
Nucleotides



Product introduction

Pseudouridine is an isomer of uridine. It has a featured C5-C1' glycosidic bond. More than one hundred RNA modifications have been discovered in nature and each contributes a wide range of biological functions. One of the most common and first discovered modifications is the isomerization from uridine to pseudouridine.

Pseudouridine is found in many types of RNA, such as tRNA, rRNA, and even in coding regions of mRNA. mRNA vaccines and drugs with pseudouridine show lower immune response and higher stability. Also, pseudouridine increases the translation efficiency of the coding gene. It is an important material in the production of mRNA vaccines and drugs.



Order information

Catalog No.	Product Name	Pckage	Synonyms
HMD2101	dNTP _{mix} (A.C.T.G)25mM each	1, 20, 100, 500ml	dNTP
HMD2102	dNTP _{mix} (A.C.T.G)10mM each	1, 20, 100, 500ml	dNTP
HMD2601	dUTP.3Na 100mM	1, 20, 100, 500ml	dUTP
HMD2701	dTTP.3Na 100mM	1, 20, 100, 500ml	dTTP
HMD2801	dCTP.3Na 100mM	1, 20, 100, 500ml	dCTP
HMD2901	dGTP.3Na 100mM	1, 20, 100, 500ml	dGTP
HMD3001	dATP.3Na 100mM	1, 20, 100, 500ml	dATP

Order information

Catalog No.	Product Name	Structure	Purity(HPLC)	Pckage
PU-1001	Pseudouridine		≥98%	1,100,1000g
PU-1002	N1-Me -Pseudouridine		≥98%	1,100,1000g

Catalog No.	Product Name	Structure	Purity(HPLC)	Package
MR-3001	Pseudo UTP(100mM)		≥97%	1,50,500ml
MR-3002	N1-Me-Pseudo UTP(100mM)		≥99%	1,50,500ml
PA-9001	DMT-2'-F-pU-CE -Phosphoramidite		≥98%	1,100,1000g
PA-9002	5'-O-DMT-2'-O-TBD MS-N1-Me-pU Phosphoramidite		≥98%	1,100,1000g