



V3.0

GLYCOGENE

PRODUCT CATALOG

GLYCOGENE

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🌐 www.glycogene.com



Nucleotides ■

Cap analogs and precursors ■

Pseudouridine derivatives ■

SAM ■



ABOUT US

Glycogene INC is an advanced biotechnology enterprise founded in Wuhan with a warehouse in Atlanta, USA. We focus our business in the fields of R&D, manufacturing, and marketing to help our customers in their evolving needs for higher quality of chemicals.

Here at Glycogene, using our biosynthesis, fermentation and organic synthesis techniques, our scientific experts are more than happy to offer the best quality and cost-effective products such as nucleosides, nucleotides, phosphoramidites and carbohydrates. Also, we can provide custom synthesis service for unique structures those are not in stock.

Over the years, with constant collaboration and innovation, we have enriched our product list to cover our customer's essential needs and still in search to expand our product line to help our customers to achieve their goal.

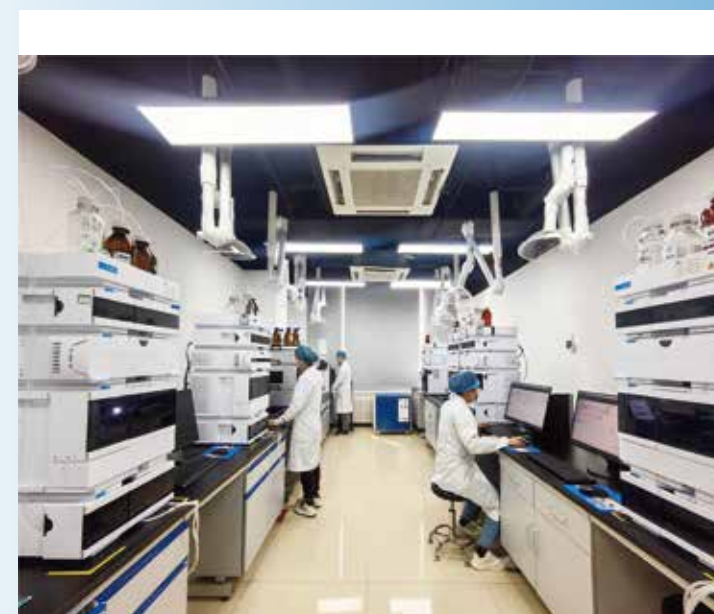
Your Trusted xRNA Material Partner



Manufacturing area



Clean area

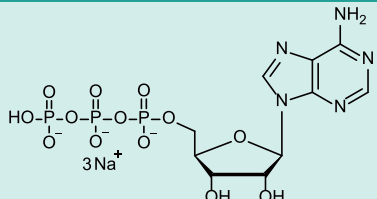
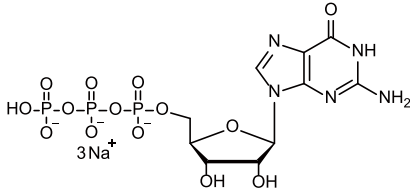
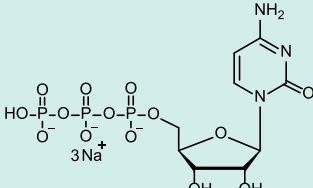
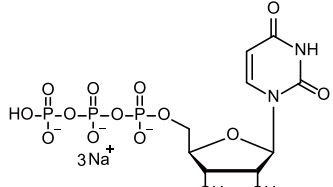
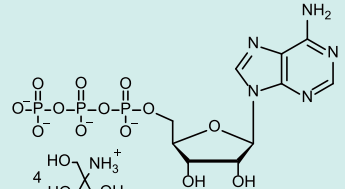
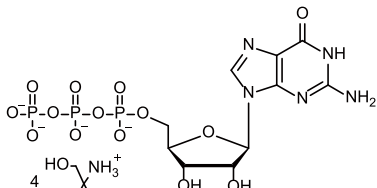
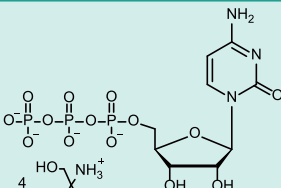


QC area

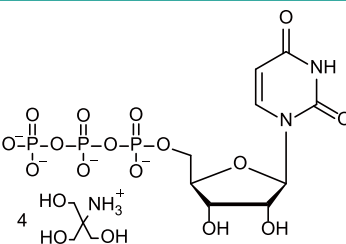
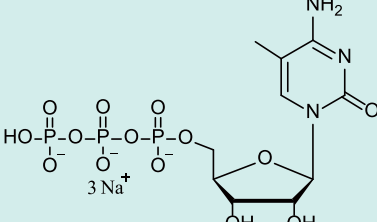
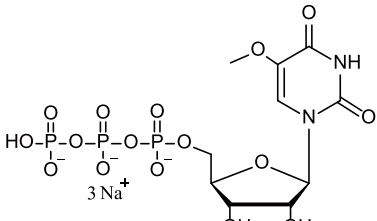
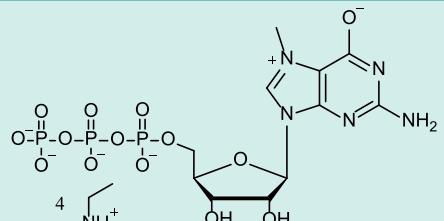
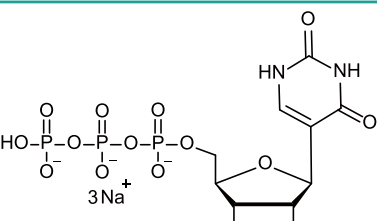
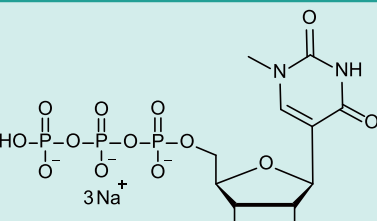


Quality certification

NTPs and derivatives

Catalog No.	Product Name	mM	Structure	Package
MR-1001	ATP sodium solution	100		1, 20, 100, 500 mL
MR-1002	GTP sodium solution	100		1, 20, 100, 500 mL
MR-1003	CTP sodium solution	100		1, 20, 100, 500 mL
MR-1004	UTP sodium solution	100		1, 20, 100, 500 mL
MR-1005	ATP Tris solution	100		1, 20, 100, 500 mL
MR-1006	GTP Tris solution	100		1, 20, 100, 500 mL
MR-1007	CTP Tris solution	100		1, 20, 100, 500 mL

NTPs and derivatives

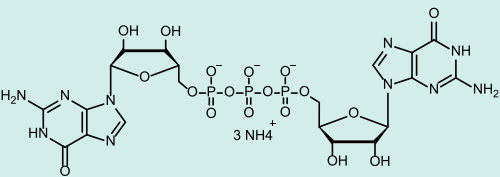
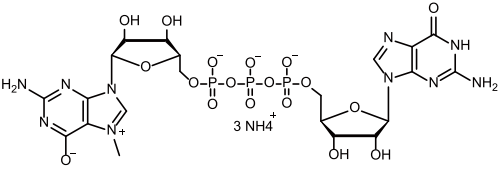
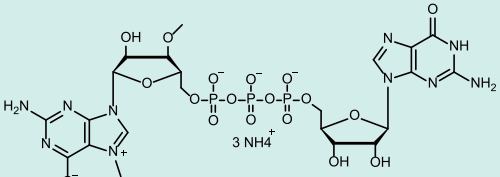
Catalog No.	Product Name	mM	Structure	Package
MR-1008	UTP Tris solution	100		1, 20, 100, 500 mL
MR-2001	5-Me-CTP	100		1, 20, 100, 500 mL
MR-2002	5-OMe-UTP	100		1, 20, 100, 500 mL
MR-2003	N7-Me-GTP	100		1, 20, 100, 500 mL
MR-3001	Pseudo UTP sodium solution	100		1, 20, 100, 500 mL
MR-3002	N1-Me-Pseudo UTP sodium solution	100		1, 20, 100, 500 mL

🧪 Cap analogs

Capped mRNAs are generally translated more efficiently in reticulocyte lysate and wheat germ in vitro translation systems. Cap analogs are used for the synthesis of 5' capped RNA molecules in in vitro transcription reactions.

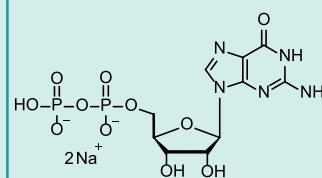
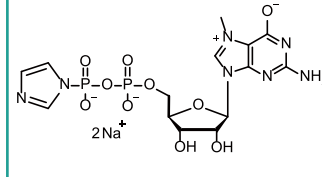
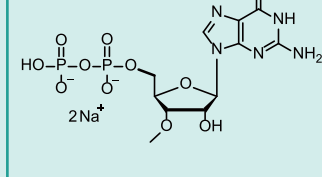
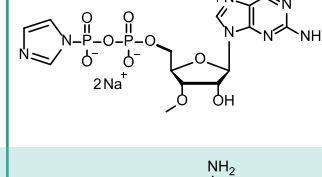
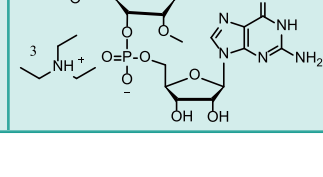
Herein, we produces all kinds of cap analogs with 10L-100L scale per batch. with a excellent IVT capping yield. Besides, we can also provide cap intermediates in kilogram scale to assist our customer to prepare their novel cap structures.

🛒 Order information

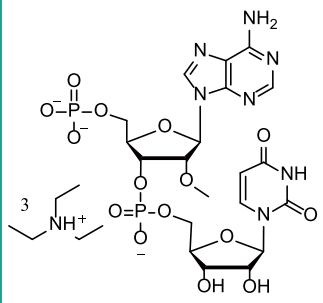
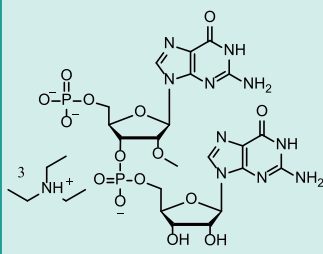
Catalog No.	Product Name	mM	Structure	Package
CA-1001	GpppG	100		1, 20, 100, 500 mL
CA-1002	M7-GpppG	100		1, 20, 100, 500 mL
CA-1003	ARCA	100		1, 20, 100, 500 mL
For more structures, please contact us.				

🧪 Cap precursors

🛒 Order information

Catalog No.	Product Name	Structure	Purity (HPLC)	Package
CM-1001	GDP		≥98%	1, 100, 1000 g
CM-1002	M7-GDP-IMZ		≥90%	1, 100, 1000 g
CM-1003	3'-OMe-GDP		≥95%	1, 100, 1000 g
CM-1004	3'-OMe-M7GDP-IMZ		≥90%	1, 100, 1000 g
CM-1005	(5'-MP-Am)pG		≥98%	1, 100, 1000 g

Order information

Catalog No.	Product Name	Structure	Purity (HPLC)	Package
CM-1006	(2'OMe-5'MP-A)pU		≥98%	1, 100, 1000 g
CM-1007	(2'OMe-5'MP-G)pG		≥98%	1, 100, 1000 g

For more structures, please contact us.

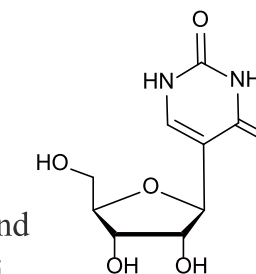


Large scale synthesis of Pseudouridine related products

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.

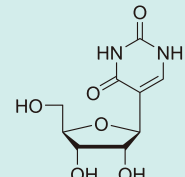
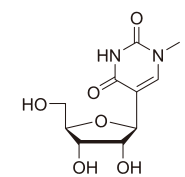
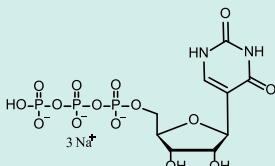
Pseudouridine is found in many types of RNA, such as tRNA, rRNA, and even in coding regions of mRNA. mRNA vaccines and drugs with pseudouridine show lower immune response and higher stability. Also, pseudouridine increases the translation efficiency of the coding gene. It is an important material in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



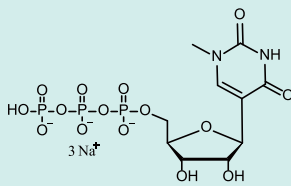
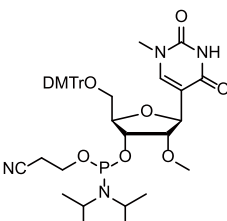
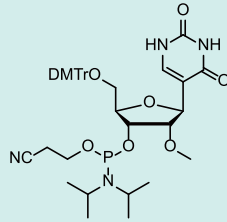
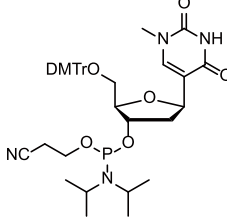
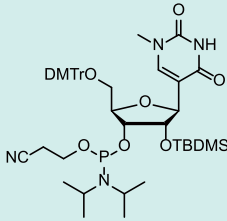
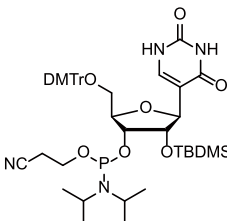
Product superiority

- Large scale: pseudouridine (1145-07-4), 50 kg/batch
- No RNase, Nickase, Endonuclease contamination and no heavy metal residue
- All pseudouridine related products show >98% purity (HPLC)

Order information

Catalog No.	Product Name	Structure	Purity (HPLC)	Package
PU-1001	Pseudouridine		≥98%	1, 100, 1000 g
PU-1002	N1-Me-Pseudouridine		≥98%	1, 100, 1000 g
MR-3001	Pseudo UTP (100 mM)		≥98%	1, 50, 500 mL

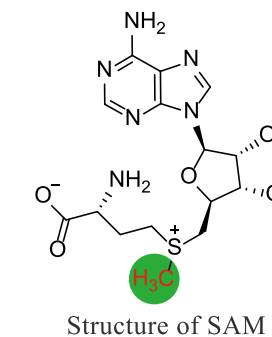
Order information

Catalog No.	Product Name	Structure	Purity (HPLC)	Package
MR-3002	N1-Me-Pseudo UTP (100 mM)		≥99%	1, 50, 500 mL
PA-7020	DMT-2'-OMe-N1-methyl-Pseudouridine-CE-Phosphoramidite		≥98%	1, 100, 1000 g
PA-5020	DMT-2'-OMe-Pseudouridine-CE-Phosphoramidite		≥98%	1, 100, 1000 g
PA-7010	DMT-2'-deoxy-N1-methyl-Pseudouridine-CE-Phosphoramidite		≥98%	1, 100, 1000 g
PA-2022	DMT-2'-O-TBDMS-N1-methyl-Pseudouridine-CE-Phosphoramidite		≥98%	1, 100, 1000 g
PA-5050	DMT-2'-O-TBDMS-Pseudouridine-CE-Phosphoramidite		≥98%	1, 100, 1000 g

S-adenosylmethionine(SAM)

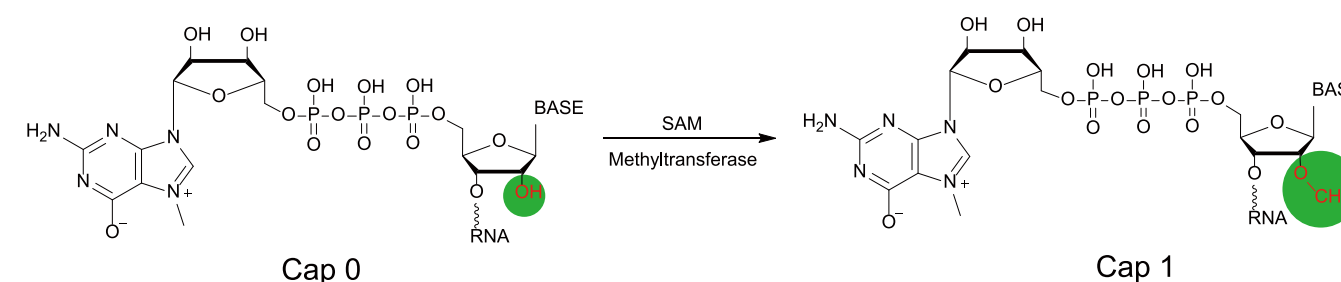
Product introduction

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.



Product performance

The SAM of our company is prepared in 0.005 M 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/exonucleas	Microbial residue
Result	>90% (75%S,S)	32 mM±2 mM	<1 EU/mL	Not detectable	Not detectable

Order information

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