



## SAM 32mM solution

**Product Number:GMP-SAM01**

**Animal-free**

**Ampicillin-free**

### Shipping and Storage

At -20±5°C.

### Description

S-(5'-Adenosyl)-L-methionine (SAM, AdoMet) with an activating methyl group is the methyl donor for Vaccinia Capping Enzyme, GMP Grade (GMP-M062) and mRNA Cap 2'-O-Methyltransferase, GMP Grade (GMP-M072) catalyzed methylation, the storage buffer formula is: 0.005M Sulfuric Acid, 10% ETOH.

SAM processes are strictly controlled to ensure the end products free from impurities following the Pharmaceutical Manufacturing Guidelines. We guarantee the manufacturing and quality control comply with GMP regulation for tracking each and every step of the manufacturing process, including raw material sourcing.

This product has passed the HALAL certification.

### Quality Elements

Element	Standard
Appearance	Clear and transparent solution
Visible impurities	Meet the specification
purity	≥96%
Concentration	32mM±3mM
λmax UV absorption peak	259nm±2nm
Endonuclease Residues	The degradation of substrate was ≤10%
Exonuclease Residues	The degradation of substrate was ≤10%
RNase Residues	The degradation of substrate was ≤10%
Microbial Limit	Total aerobic microbial count≤1cfu/10ml, total yeasts and molds count≤1cfu/10ml

### Complying to Following Regulations

1. ISO 9001:2015, certified facility.
2. GMP Appendix – Cellular therapeutic product National Medical Products Administration.
3. The Pandect of Genetic Therapeutic Product for Human Chinese Pharmacopoeia Commission.
4. USP Chapter <1043>, Ancillary Materials for Cell, Gene, and Tissue-Engineered Products.
5. USP Chapter <92>, Growth Factors and Cytokines Used in Cell Therapy Manufacturing.
6. Ph. Eur. General Chapter 5.2.12, Raw Materials of Biological Origin for the Production of Cell-based and Gene Therapy Medicinal Products.

### Package

Components	Volume
SAM 32mM solution	0.5ml
SAM 32mM solution	5ml
SAM 32mM solution	50ml

### Note

SAM is unstable at pH 7–8 at 37°C and needs to be freshly prepared before the reaction starts. The amount of SAM can be calculated in advance and the 32mM stock solution can be diluted to a working solution prior to the start of the reaction. To avoid



## Tinzyme Co., Limited

Email: [sales@tinzyme.com](mailto:sales@tinzyme.com)

Website: [www.tinzyme.com](http://www.tinzyme.com)

Tel: +86-755-86134126

WhatsApp/Facebook/Twitter: +86-189-22896756

SAM degradation, this working solution needs to be kept on ice.

### Related Products

Product Number	Product Name
GMP-M062	Vaccinia Capping Enzyme, GMP Grade
GMP-E125	RNase Inhibitor, GMP Grade
GMP-M072	mRNA Cap 2'-O-Methyltransferase, GMP Grade
GMP-DI05	DNase I Recombinant GMP grade
GMP-M012	Poly(A) Polymerase, GMP Grade
GMP-M036	Pyrophosphatase, Inorganic (yeast), GMP Grade (ppase)
GMP-T701	T7 RNA Polymerase, GMP Grade
D1331	dATP 100mM solution
D2331	dGTP 100mM solution
D3331	dCTP 100mM solution
D4331	dTTP 100mM solution