

FOR IN VITRO RESEARCH USE ONLY.  
NOT FOR USE IN HUMANS OR ANIMALS.

# Recombinant human SHMT1 protein



## Basic Information

### Catalog Number:

Ag31269

### Form:

Available lyophilized

### Species:

human

### Expression Source:

*e coli*-derived, PET28a, with N-terminal 6<sup>His</sup>.

### Biological Activity:

Not tested

### Endotoxin Level:

Please contact the lab for more information

### Peptide Sequence:

MTLEFKVYQHQQVAVANCRLSEALTELGKIVTGGSDN  
HLVLVLRSGKTDGGRAEKVLEACSIACNKNTCPGDRS  
ALRPSGLRLGTPALTSRGLLEKDFQKVAHFHRIELTL  
QIQSDTGVRATLKEFKERLAGDKYQAAVQALREEVES  
FASLFPLPLPDF

(320-483 aa encoded by BC038598)

## Reconstitution and Storage

### Reconstitution:

Reconstitute at 0.25 µg/µl in 200 µl sterile water for short-term storage.

After reconstitution with sterile water, if glycerol has no effect on subsequent experiments, it is recommended to add an equal volume of glycerol for long-term storage (see Stability and Storage for more details).

If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used).

Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

### Shipping:

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the recommended temperature (see below).

## Purity

85%, by SDS-PAGE with Coomassie Brilliant Blue staining.

## Formulation

The purified protein was Lyophilized from sterile PBS (58mM Na<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH7.4). 5 % trehalose and 5 % mannitol are added as protectant before lyophilization. The elution buffer contain 300mM imidazole.

## Stability and Storage

Store for up to 12 months at -20°C to -80°C as lyophilized powder.

## Storage of Reconstituted Protein

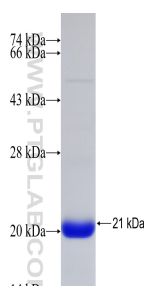
### Short Term Storage:

Store at 2-8°C for (1-2 weeks).

### Long Term Storage:

Aliquot and store at -20°C to -80°C for up to 3 months, reconstitution with sterile water and addition of an equal volume of glycerol. Avoid repeat freeze-thaw cycles.

## Selected Validation Data



For technical support and original validation data for this product please contact:

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