## **Product Name: Recombinant Human SHMT1 (C-6His)** Catalog #: PHH1492



### **Summary**

Name Serine hydroxymethyltransferase/SHMT1

**Purity** Greater than 95% as determined by reducing SDS-PAGE

**Endotoxin level** <1 EU/µg as determined by LAL test.

Construction Recombinant Human Serine Hydroxymethyltransferase Cytosolic is produced

by our Mammalian expression system and the target gene encoding Met3-

Phe483 is expressed with a 6His tag at the C-terminus.

Accession # AAH07979.1

Host **Human Cells** 

**Species** Human

**Predicted Molecular Mass** 53.9 KDa

Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 1mM EDTA, **Formulation** 

5% Trehalose, 5% Mannitol, 0.02% Tween80, pH 6.0.

**Shipping** The product is shipped at ambient temperature. Upon receipt, store it

immediately at the temperature listed below.

Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 Stability&Storage

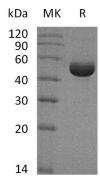
months under sterile conditions after opening. Please minimize freeze-thaw

cycles.

Reconstitution Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is

> not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

### **SDS-PAGE** image



# Product Name: Recombinant Human SHMT1 (C-6His) Catalog #: PHH1492



### **Background**

Alternative Names Serine Hydroxymethyltransferase Cytosolic; SHMT; Glycine

Hydroxymethyltransferase; Serine Methylase; SHMT1

Background Serine Hydroxymethyltransferase Cytosolic (SHMT1) is a member of the SHMT

family. SHMT1 is a cytoplasmic protein and exists as a homotetramer. SHMT1 catalyzes the reversible conversion of serine and tetrahydrofolate to glycine and 5,10-methylene tetrahydrofolate. This reaction provides one carbon unit for the synthesis of methionine, thymidylate, and purines in the cytoplasm. A reduction in SHMT1 levels would result in less glycine that could affect the nervous system by acting as an agonist to the NMDA receptor and this could be a mechanism behind

Smith-Magenis syndrome.

#### Note

For Research Use Only, Not for Diagnostic Use.

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838