# antibodies -online.com





## Datasheet for ABIN7319012

# **SHMT1 Protein (His tag)**



#### Overview

Quantity:	50 μg
Target:	SHMT1
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SHMT1 protein is labelled with His tag.

### **Product Details**

Purpose:	Recombinant Human SHMT1 Protein (His Tag)
Sequence:	Met3-Phe483
Characteristics:	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.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### **Target Details**

Target:	SHMT1
Alternative Name:	SHMT1 (SHMT1 Products)
Background:	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

#### **Target Details**

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.

Synonym: Serine Hydroxymethyltransferase Cytosolic, SHMT, Glycine

Hydroxymethyltransferase, Serine Methylase, SHMT1

Molecular Weight:

53.9 kDa

UniProt:

P34896

#### **Application Details**

Restrictions:

For Research Use only

#### Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 20 mM PB,150 mM NaCl, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.  Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.