

Product datasheet for TP725918

Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant Human SHMT1 (C-6His)

Species: Human

Expression cDNA Clone

or AA Sequence:

Met3-Phe483

Tag: C-His

Filtered solution of 20 mM PB, 150 mM NaCl, pH6.0 **Buffer:**

Note: 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.

Stability: 12 months from date of despatch

Serine Hydroxymethyltransferase Cytosolic; SHMT; Glycine Hydroxymethyltransferase; Serine Synonyms:

Methylase; SHMT1

Summary: 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.



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