

Recombinant Human SHMT2 Protein, His-tagged

Cat. No. SHMT2-927H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SHMT2 fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes the mitochondrial form of a pyridoxal phosphate-dependent enzyme that catalyzes the reversible reaction of serine and tetrahydrofolate to glycine and 5,10-methylene tetrahydrofolate. The encoded product is primarily responsible for glycine synthesis. The activity of the encoded protein has been suggested to be the primary source of intracellular glycine. The gene which encodes the cytosolic form of this enzyme is located on chromosome 17. Alternative splicing results in multiple transcript variants.
Form	25mM Tris, pH8.0, 150 mM NaCl, 10% glycerol, 1 % Sarkosyl. Store at -80 centigrade. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
Molecular Mass	56
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

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GENE INFORMATION

Gene Name	SHMT2 serine hydroxymethyltransferase 2 (mitochondrial) [Homo sapiens]
Official Symbol	SHMT2
Synonyms	SHMT2; serine hydroxymethyltransferase 2 (mitochondrial); SHMT; serine hydroxymethyltransferase, mitochondrial; GLY A+; serine aldolase; serine methylase; threonine aldolase; serine hydroxymethylase; glycine hydroxymethyltransferase; glycine auxotroph A, human complement for hamster; GLYA;
Gene ID	6472
mRNA Refseq	NM_001166356
Protein Refseq	NP_001159828
MIM	138450
UniProt ID	P34897

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