Recombinant Human SHMT1 293 Cell Lysate

Cat. No. SHMT1-1855HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for serine hydroxymethyltransferase 1 (soluble) (SHMT1), transcript variant 2 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	SHMT1 serine hydroxymethyltransferase 1 (soluble) [Homo sapiens]
Official Symbol	SHMT1
Synonyms	SHMT1; serine hydroxymethyltransferase 1 (soluble); serine hydroxymethyltransferase, cytosolic; 14 kDa protein; CSHMT; cytoplasmic serine hydroxymethyltransferase; MGC15229; MGC24556; SHMT; serine methylase; glycine hydroxymethyltransferase;
Gene ID	6470
mRNA Refseq	NM_148918
Protein Refseq	NP_683718
MIM	182144
UniProt ID	P34896
Chromosome Location	17p11.2
Pathway	C1-unit interconversion, eukaryotes, organism-specific biosystem; C1-unit interconversion, eukaryotes, conserved biosystem; Carnitine synthesis, organism-specific biosystem; Cyanoamino acid metabolism, organism-specific biosystem;

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	Cyanoamino acid metabolism, conserved biosystem; Glycine, serine and threonine metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, conserved biosystem;
Function	L-allo-threonine aldolase activity; amino acid binding; glycine hydroxymethyltransferase activity; glycine hydroxymethyltransferase activity; protein homodimerization activity; pyridoxal phosphate binding; transferase activity;

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