Recombinant Human Serine hydroxymethyltransferase, mitochondrial (SHMT2)

Product Code	CSB-MP021274HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P34897
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	N AAQTQTGEAN RGWTGQESLS DSDPEMWELL QREKDRQCRG LELIASENFC SRAALEALGS CLNNKYSEGY PGKRYYGGAE VVDEIELLCQ RRALEAFDLD PAQWGVNVQP YSGSPANLAV YTALLQPHDR IMGLDLPDGG HLTHGYMSDV KRISATSIFF ESMPYKLNPK TGLIDYNQLA LTARLFRPRL IIAGTSAYAR LIDYARMREV CDEVKAHLLA DMAHISGLVA AKVIPSPFKH ADIVTTTTHK TLRGARSGLI FYRKGVKAVD PKTGREIPYT FEDRINFAVF PSLQGGPHNH AIAAVAVALK QACTPMFREY SLQVLKNARA MADALLERGY SLVSGGTDNH LVLVDLRPKG LDGARAERVL ELVSITANKN TCPGDRSAIT PGGLRLGAPA LTSRQFREDD FRRVVDFIDE GVNIGLEVKS KTAKLQDFKS FLLKDSETSQ RLANLRQRVE QFARAFPMPG FDEH
Source	Mammalian cell
Target Names	SHMT2
Protein Names	Recommended name: Serine hydroxymethyltransferase, mitochondrial Short name= SHMT EC= 2.1.2.1 Alternative name(s): Glycine hydroxymethyltransferase Serine methylase
Expression Region	30-504
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final

	concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.