

# Recombinant Human SHMT2 Protein

Catalog No.: RP03561LQ **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	6472	P34897

**Tags**  
NO-Tag

**Synonyms**  
SHMT2;Serine  
hydroxymethyltransferase;  
mitochondrial; SHMT

## Product Information

Source	Purification
<i>E. coli</i>	≥ 90% as determined by reducing SDS-PAGE.

Calculated MW	Observed MW
52.7 KDa	40-60 kDa

**Endotoxin**  
< 1 EU/μg of the protein by LAL method.

**Formulation**  
Supplied as a 0.2 μm filtered solution of  
50 mM HEPES (pH7.5), 200 mM NaCl,  
20% glycerol, 1 mM DTT

## Reconstitution

## Background

The SHMT2 protein catalyzes the cleavage of serine to produce 5,10-methylenetetrahydrofolate for purine synthesis. It binds to mitochondrial DNA and participates in target protein deubiquitination via the BRISC complex.

## Basic Information

**Description**  
Recombinant Human SHMT2 Protein is produced by *E. coli* system. The target protein is expressed with sequence (Ser29-His504) of Human SHMT2(Accession #P34897) fused with no tag.

## Bio-Activity

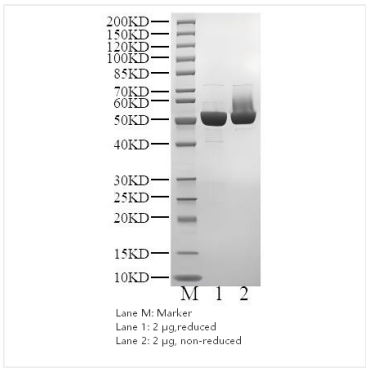
**Storage**  
Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

## Contact

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## Validation Data

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Recombinant Human SHMT2 Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.