SHMT2 (NM_005412) Human Over-expression Lysate

E45H18754-

Catalog Number:E45H18754-2

NCBI Gene ID:6472

Calculated MW:56 kDa

Storage: Upon receiving, store the sample at -80°C. After dilution, the protein sample should be aliquoted and stored at -80°C for long term storage. Avoid repeated freeze-thaw cycles. Lysate samples can be diluted with 2 x SDS Sample Buffer provided. Lysate samples are stable for 12 months from the date of receipt when stored at -80°C.

Cite ID#:EN5540034

Type: Human Lysates

Research Field: Cyanoamino acid metabolism, Glycine, serine and threonine metabolism, Metabolic pathways, Methane metabolism, One carbon pool by folate

Description: Transient overexpression lysate of serine hydroxymethyltransferase 2 (mitochondrial) (SHMT2), nuclear gene encoding mitochondrial protein, transcript variant 1

Protein length: GoldORF Clone [GH34182V]

Expression Host:HEK293T

Species: Human

Tag:C-Myc/DDK

Detection principle: Detection Antibody: Clone LBI4C5, Anti-DDK (FLAG) monoclonal antibody ([AMM08808V])

Kit components:1 vial of gene specific transient over-expression cell lysate in RIPA buffer 1 vial of whole HEK293T cell lysate in RIPA buffer 1 vial of 2xSDS Sample Buffer (4% SDS, 125mM Tris-HCl pH6.8, 10% glycerol, 0.002% Bromophenol blue, 100mM DTT)

Gene symbol:SHMT2

mRNA Refseq:NM_005412

Protein Refseq:NP_005403

Chromosome location:12q13.3

Pathway: Cyanoamino acid metabolism, Glycine, serine and threonine metabolism, Metabolic pathways, Methane metabolism, One carbon pool by folate

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Form: Liquid

Preparation:HEK293T cells in 10-cm dishes were transiently transfected with Leading Biology Transfection Reagent (TF002V) and 5ug Leading Biology GoldORF cDNA plasmid. Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer (25mM Tris-HCl pH7.6, 150mM NaCl, 1% NP-40, 1mM EDTA, 1 x Proteinase inhibitor cocktail mix (Sigma), 1mM PMSF and 1mM Na3VO4), and then centrifuged to clarify the lysate. Protein concentration was measured by BCA kit (Thermo Scientific Inc.). Cell lysates were aliquoted and stored at -20°C before shipping.

Synonyms:GLYA; HEL-S-51e; NEDCASB; SHMT