

Recombinant Human SLC25A19 Protein, His&GST-tagged

Cat. No. SLC25A19-400H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SLC25A19 Protein (Asn13-Val309) with N-His&GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Asn13-Val309
Description	This gene encodes a mitochondrial protein that is a member of the solute carrier family. Although this protein was initially thought to be the mitochondrial deoxynucleotide carrier involved in the uptake of deoxynucleotides into the matrix of the mitochondria, further studies have demonstrated that this protein instead functions as the mitochondrial thiamine pyrophosphate carrier, which transports thiamine pyrophosphates into mitochondria. Mutations in this gene cause microcephaly, Amish type, a metabolic disease that results in severe congenital microcephaly, severe 2-ketoglutaric aciduria, and death within the first year. Multiple alternatively spliced variants, encoding the same protein, have been identified for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 63.3 kDa Accurate Molecular Mass: 63 kDa

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	SLC25A19 solute carrier family 25 (mitochondrial thiamine pyrophosphate carrier), member 19 [Homo sapiens (human)]
Official Symbol	SLC25A19
Synonyms	SLC25A19; solute carrier family 25 (mitochondrial thiamine pyrophosphate carrier), member 19; MCPHA, microcephaly, Amish, solute carrier family 25 (mitochondrial deoxynucleotide carrier), member 19; mitochondrial thiamine pyrophosphate carrier; DNC; MUP1; TPC; microcephaly, Amish; mitochondrial uncoupling protein 1; solute carrier family 25 (mitochondrial deoxynucleotide carrier), member 19; MCPHA; THMD3; THMD4
Gene ID	60386

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mRNA Refseq	NM_001126121
Protein Refseq	NP_001119593
MIM	606521
UniProt ID	Q9HC21

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