

Recombinant Mouse Smdt1 Protein, His&GST-tagged

Cat. No. Smdt1-2706M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Smdt1 Protein (Val48-Asp107) with a N-His&GST tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Val48-Asp107
Description	Predicted to be involved in calcium import into the mitochondrion and mitochondrial calcium ion homeostasis. Predicted to act upstream of or within calcium ion transport. Located in mitochondrion. Is expressed in nervous system; neural retina; orbito-sphenoid; and vibrissa. Orthologous to human SMDT1 (single-pass membrane protein with aspartate rich tail 1).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 36.7 kDa Accurate Molecular Mass: 40 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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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	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Smdt1 single-pass membrane protein with aspartate rich tail 1 [Mus musculus (house mouse)]
Official Symbol	Smdt1
Synonyms	Smdt1; single-pass membrane protein with aspartate rich tail 1; Emre; 1500032L24Rik; essential MCU regulator, mitochondrial UPF0466 protein C22orf32 homolog, mitochondrial single-pass membrane protein with aspartate-rich tail 1, mitochondrial
Gene ID	69029
mRNA Refseq	NM_026914
Protein Refseq	NP_081190

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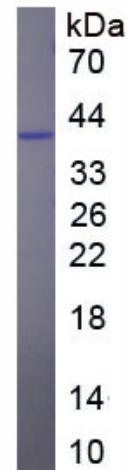
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UniProt ID

Q9DB10



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