Recombinant Mouse Slc25a33 Protein, Myc/DDK-tagged

Cat. No. Slc25a33-5914M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length solute carrier family 25, member 33 (Slc25a33), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Mitochondrial transporter that imports/exports pyrimidine nucleotides into and from mitochondria. Transports preferentially uracil, thymine, and cytosine (deoxy)nucleoside di- and triphosphates by an antiport mechanism. Also transports guanine but not adenine (deoxy)nucleotides. Is inhibited strongly by pyridoxal 5'-phosphate, 4,7-diphenyl-1,10-phenanthroline, tannic acid, and mercurials (mercury dichloride, mersalyl acid, p-hydroxymercuribenzoate). Participates in mitochondrial genome maintenance, regulation of mitochondrial membrane potential and mitochondrial respiration. Upon INS or IGF1 stimulation regulates cell growth and proliferation by controlling mitochondrial DNA replication and transcription, the ratio of mitochondria-to nuclear-encoded components of the electron transport chain resulting in control of mitochondrial ROS production. Participates in dendritic cell endocytosis and may associate with mitochondrial oxidative phosphorylation.
Molecular Mass	35 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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	handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Slc25a33 solute carrier family 25, member 33 [Mus musculus (house mouse)]
Official Symbol	Slc25a33
Synonyms	Slc25a33; solute carrier family 25, member 33; Pn; Pnc1; 5730438N18Rik; solute carrier family 25 member 33; mitochondrial carrier protein; novel mitochondrial carrier protein domains containing protein
Gene ID	70556
mRNA Refseq	NM_027460
Protein Refseq	NP_081736
UniProt ID	Q3TZX3

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