Recombinant Mouse Slc22a5 Protein, His&GST-tagged

Cat. No. Slc22a5-2063M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Slc22a5 Protein (Met1-Pro278) with N-His&GST tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Met1-Pro278
Description	Enables (R)-carnitine transmembrane transporter activity. Involved in (R)-carnitine transmembrane transport and transport across blood-brain barrier. Acts upstream of or within several processes, including adult heart development; carnitine metabolic process; and carnitine transport. Located in brush border membrane. Is expressed in several structures, including liver; metanephros; nasal cavity mucosa; spleen; and testis. Used to study systemic primary carnitine deficiency disease. Human ortholog(s) of this gene implicated in Crohn's disease; cardiomyopathy; inherited metabolic disorder; and systemic primary carnitine deficiency disease. Orthologous to human SLC22A5 (solute carrier family 22 member 5).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 61.6 kDa Accurate Molecular Mass: 62 kDa
Purity	> 90%

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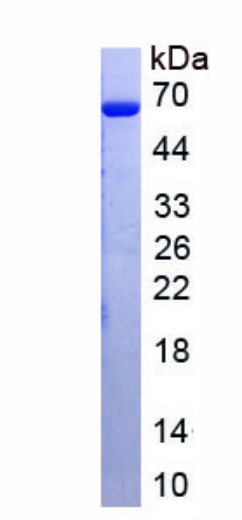
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. 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, 1mM DTT, 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	Slc22a5 solute carrier family 22 (organic cation transporter), member 5 [Mus musculus (house mouse)]
Official Symbol	Slc22a5
Synonyms	Slc22a5; solute carrier family 22 (organic cation transporter), member 5; jvs; Lstpl; Octn2; solute carrier family 22 member 5; high-affinity sodium-dependent carnitine cotransporter; juvenile visceral steatosis; organic cation/carnitine transporter 2
Gene ID	20520
mRNA Refseq	NM_011396
Protein Refseq	NP_035526

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UniProt ID	Q9Z0E8



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