

Recombinant Human SLC37A4

Cat. No. SLC37A4-31417TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human SLC37A4 with an N terminal proprietary tag; Predicted MWt 31.02 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	49 amino acids
Description	This gene regulates glucose-6-phosphate transport from the cytoplasm to the lumen of the endoplasmic reticulum, in order to maintain glucose homeostasis. It also plays a role in ATP-mediated calcium sequestration in the lumen of the endoplasmic reticulum. Mutations in this gene have been associated with various forms of glycogen storage disease. Alternative splicing in this gene results in multiple transcript variants.
Molecular Weight	31.020kDa inclusive of tags
Tissue specificity	Mostly expressed in liver and kidney.
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	RKTFSFVMPSLVEEIPLDKDDLGFITSSQSAAYAISKFVSGVLSDQMSA
Sequence Similarities	Belongs to the major facilitator superfamily. Organophosphate:Pi antiporter (OPA) (TC 2.A.1.4) family.
GENE INFORMATION	
Gene Name	SLC37A4 solute carrier family 37 (glucose-6-phosphate transporter), member 4 [Homo sapiens]
Official Symbol	SLC37A4
Synonyms	SLC37A4; solute carrier family 37 (glucose-6-phosphate transporter), member 4; G6PT1, G6PT2, G6PT3, glucose 6 phosphatase, transport (glucose 6 phosphate) protein 1; glucose-6-phosphate translocase; GSD1b; GSD1c; GSD1d;
Gene ID	2542
mRNA Refseq	NM_001164277
Protein Refseq	NP_001157749
MIM	602671
Uniprot ID	O43826
Chromosome Location	11q23.3

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Pathway	Carbohydrate digestion and absorption, organism-specific biosystem; Carbohydrate digestion and absorption, conserved biosystem; Glucose transport, organism-specific biosystem; Hexose transport, organism-specific biosystem; Metabolism of carbohydrates, organism-specific biosystem;
Function	glucose-6-phosphate transmembrane transporter activity; glucose-6-phosphate transmembrane transporter activity; transporter activity;

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