

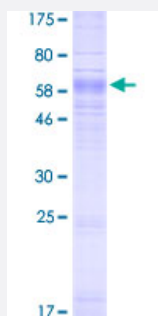
Full-Length

SLC37A4 (Human) Recombinant Protein (P01)

Catalog # H00002542-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human SLC37A4 full-length ORF (NP_001458.1, 1 a.a. - 429 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAAQGYGYRTVIFSAMFGGYSLYYFNRTFSFVMPSLVEEIPLDKDDLGFITSSQSAAYAISKFVS
GVLSDQMSARWLFSSGLLLVLNIFFAWSSTVPVFAALWFLNGLAQQLGWPPCGKVLKWF
PSQFGTWWAILSTSMNLAGGLGPILATILAQSYWRSTLALSGALCVVVSFLCLLLIHNEPADVGLR
NLDPMMPSEGKKGSLKEESTLQELLLSPYLWVLSTGYLVVFGVKTCCTDWGQFFLIQEKQGSALV
GSSYMSALEVGGLVGSIAAGYLSDRAMAKAGLSNYGNPRHGLLLFMMAGMTVSMYLFRTVTSD
SPKLWILVLGAVFGFSSYGPIALFGVIANESAPPNLCGTSHAIVGLMANVGGFLAGLPFSTIAKHYS
WSTAFWVAEICAATAAFLLRNIRTKMGRVSKKAE

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

72.8

Interspecies Antigen Sequence

Mouse (93); Rat (93)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — SLC37A4

Entrez GeneID	2542
GeneBank Accession#	NM_001467.3
Protein Accession#	NP_001458.1
Gene Name	SLC37A4
Gene Alias	G6PT1, G6PT2, G6PT3, GSD1b, GSD1c, GSD1d, MGC15729, PRO0685, TRG19
Gene Description	solute carrier family 37 (glucose-6-phosphate transporter), member 4
Omim ID	232220 232240 602671
Gene Ontology	Hyperlink
Gene Summary	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
Other Designations	glucose-6-phosphatase, transport (glucose) protein 3 glucose-6-phosphatase, transport (glucose-6-phosphate) protein 1 glucose-6-phosphatase, transport (phosphate/pyrophosphate) protein 2 glucose-6-phosphate translocase glucose-6-phosphate transporter 1 mi

Disease

- [Glycogen Storage Disease Type I](#)
- [Neutropenia](#)
- [Sudden Infant Death](#)