

Recombinant Human SLC2A4 protein, GST-tagged

Cat. No. SLC2A4-112H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SLC2A4(1 a.a. - 509 a.a.)fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-509 a.a.
Description	This gene is a member of the solute carrier family 2 (facilitated glucose transporter) family and encodes a protein that functions as an insulin-regulated facilitative glucose transporter. In the absence of insulin, this integral membrane protein is sequestered within the cells of muscle and adipose tissue. Within minutes of insulin stimulation, the protein moves to the cell surface and begins to transport glucose across the cell membrane. Mutations in this gene have been associated with noninsulin-dependent diabetes mellitus (NIDDM).
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	81.2 kDa
AA Sequence	MPSGFQQIGSEEDGEPPQQRVTGTLVLAVFSAVLGSLQFGYNIGVINAPQKVIEQSYN ETWLGRQGPEGPSSIPPG TLTLWALSVAIFSVGGMISSFLIGIISQWLGRKRAMLVN NVLAVLGGSLMGLANAAASYEMLILGRFLIGAYSG LTSGLVPMYVGEIAPHLRGAL GTLNQLAIVIGILIAQVLGLESLLGTASLWPLLLGLTVLPALLQLVLLPFCPE SPRYLYII

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QNLEGPARKSLKRLTGWADVSGVLAELKDEKRKLERERPLSLLQLLGSRTHRQPLII
 AVVLQLSQQL SGINAVFYYSTSIFETAGVGGPAYATIGAGVVNTVFTLVSVLLVERAG
 RRTLHLLGLAGMCGCAILMTVALLLLE RVPAMSYVSIVAIFGFVAFFEIGPGPIWFIV
 AELFSQGPRPAAMAVAGFSNWTSNFIIGMGFQYVAEAMGPYVF LLFAVLLLGFFIFT
 FLRVPETRGRFTDQISAAFHRTPSLLEQEVKPKSTELEYLGPDEND

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

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name [SLC2A4 solute carrier family 2 \(facilitated glucose transporter\), member 4 \[Homo sapiens \]](#)

Official Symbol [SLC2A4](#)

Synonyms SLC2A4; solute carrier family 2 (facilitated glucose transporter), member 4; GLUT4;
 solute carrier family 2, facilitated glucose transporter member 4; GLUT-4; insulin-
 responsive glucose transporter type 4; glucose transporter type 4, insulin-responsive;

Gene ID [6517](#)

mRNA Refseq [NM_001042](#)

Protein Refseq [NP_001033](#)

MIM [138190](#)

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UniProt ID	P14672
Chromosome Location	17p13
Pathway	AMPK signaling, organism-specific biosystem; Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Adipogenesis, organism-specific biosystem; Arf6 trafficking events, organism-specific biosystem; Class I PI3K signaling events mediated by Akt, organism-specific biosystem; Developmental Biology, organism-specific biosystem;
Function	D-glucose transmembrane transporter activity; glucose transmembrane transporter activity; protein binding; substrate-specific transmembrane transporter activity;

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