

Product datasheet for PH313717

GLUT4 (SLC2A4) (NM_001042) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	SLC2A4 MS Standard C13 and N15-labeled recombinant protein (NP_001033)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC213717
Predicted MW:	54.6 kDa
Protein Sequence:	>RC213717 representing NM_001042 Red=Cloning site Green=Tags(s)

MPSGFQQIGSEEDGEPPQQRVTGTLVLAVFSAVLGSLQFGYNIGVINAPQKVIEQSYNETWLRGQGPEGPS
SIPPGTLTTLWALSVAIFSVGGMISSFLIGIISQWLGRKRAMLVNNVLAVLGGSLMGLANAAASYEMLIL
GRFLIGAYSGLTSGLVPMYVGEIAPTHLRGALGTLNQLAIVIGILIAQVLGLESLLGTASLWPLLLGLTV
LPALLQLVLLPFCPEsprlyYIIQNLEGPARKSLKRLTGWADVSGVLAELKDEKRKLERERPLSLLQLLG
SRTHRQPLIIAVVLQLSQQLSGINAVFYYSTSIFETAGVGQPAYATIGAGVVNTVFTLVSVLLVERAGR
TLHLLGLAGMCGCAILMTVALLLLERVPAmsyVSIVAIFGVVAFFEIGPGPIPFIVAELFSQGRPAAM
AVAGFSNWTsnfIIGMGFYVAEAMGPYVLLFAVLLLGFFIFTFLRVPETRGRTFDQISAAFHRTPSLL
EQEVKpSTELEYLGPdEND

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001033</u>
RefSeq Size:	2128
RefSeq ORF:	1527



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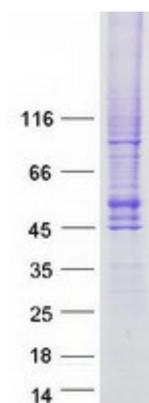
Synonyms: GLUT4
Locus ID: 6517
UniProt ID: [P14672](#)
Cytogenetics: 17p13.1

Summary: 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). [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Adipocytokine signaling pathway, Insulin signaling pathway, Type II diabetes mellitus

Product images:



Coomassie blue staining of purified SLC2A4 protein (Cat# [TP313717]). The protein was produced from HEK293T cells transfected with SLC2A4 cDNA clone (Cat# [RC213717]) using MegaTran 2.0 (Cat# [TT210002]).