

Datasheet for ABIN7548112

GLUT4 Protein (AA 1-509) (His tag)



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Overview

Quantity:	1 mg
Target:	GLUT4 (SLC2A4)
Protein Characteristics:	AA 1-509
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GLUT4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC2A4 Protein expressed in mammalian cells.
Sequence:	<p>MPSGFQQIGS EDGEPPQQRV TGTLVLAVFS AVLGSLQFGY NIGVINAPQK VIEQSYNETW LGRQGPEGPS SIPPGLTTL WALSVAFSV GGMISFLIG IISQWLGRKR AMLVNNVLAV LGGSLMGLAN AAASYEMLIL GRFLIGAYSG LTSGLVPMYV GEIAPTHLRG ALGTLNQLAI VIGILIAQVL GLESLLG TAS LWPLLLGLTV LPALLQLVLL PFCPESPRYL YIIQNLEGPA RKSLKRLTGW ADVSGVLAEL KDEKRKLERE RPLSLLQLLG SRTHRQPLII AVVLQLSQQL SGINAVFYYS TSIFETAGVG QPAYATIGAG VVNTVFTLVS VLLVERAGRR TLHLLGLAGM CGCAILMTVA LLLLERVPAM SYVSIVAIFG FVAFFEIGPG PIPWFIVAEL FSQGPRPAAM AVAGFSNWTS NFIIGMGFY VAEAMGPYVF LLFAVLLLG FIFTFLRVPE TRGRTFDQIS AAFHRTPSLL EQEVKPS TEL EYLGPDEND</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>

Product Details

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	GLUT4 (SLC2A4)
Alternative Name:	SLC2A4 (SLC2A4 Products)
Background:	Solute carrier family 2, facilitated glucose transporter member 4 (Glucose transporter type 4, insulin-responsive) (GLUT-4),FUNCTION: Insulin-regulated facilitative glucose transporter, which plays a key role in removal of glucose from circulation. Response to insulin is regulated by its intracellular localization: in the absence of insulin, it is efficiently retained intracellularly within storage compartments in muscle and fat cells. Upon insulin stimulation, translocates from these compartments to the cell surface where it transports glucose from the extracellular milieu into the cell. {ECO:0000250 UniProtKB:P19357}.
Molecular Weight:	54.8 kDa
UniProt:	P14672
Pathways:	AMPK Signaling , Carbohydrate Homeostasis , Proton Transport , Brown Fat Cell Differentiation ,

Target Details

Warburg Effect

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months