

Datasheet for ABIN7562920  
**GLUT1 Protein (AA 1-492) (His tag)**



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## Overview

Quantity:	1 mg
Target:	GLUT1 (SLC2A1)
Protein Characteristics:	AA 1-492
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GLUT1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Slc2a1 Protein expressed in mammalian cells.
Sequence:	MDPSSKKVTG RLMLAVGGAV LGSLQFGYNT GVINAPQKVI EEFYNQTNH RYGEPIPSTT LTTLWLSVA IFSVGGMIGS FSVGLFVNRF GRRNSMLMMN LLAFVAAVLM GFSKLGKSFE MLILGRFIIG VYCGLTTGFV PMYVGEVSPT ALRGALGTLH QLGIVVGILI AQVFGLD SIM GNADLWPLLL SVIFIPALLQ CILLPFCPES PRFLLINRNE ENRAKSVLKK LRGTADVTRD LQEMKEEGRQ MMREKKVTIL ELFRSPAYRQ PILIAVVLQL SSQLSGINAV FYYSTSIFEK AGVQQPVYAT IGSGIVNTAF TVVSLFVVER AGRRTLHLIG LAGMAGCAVL MTIALALLER LPWMSYLSIV AIFGFVAFFE VGP GPWPFI VAELFSQGPR PAAIAVAGFS NWT SNFIVGM CFQYVEQLCG PYVFIIFTVL LVLFFIFTYF KVPETKGRTF DEIASGFRQG GASQSDKTPE ELFHPLGADS QV <b>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.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

## Product Details

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isoform, please contact us regarding an individual offer.

### Characteristics:

#### Key Benefits:

- 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).

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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

### Grade:

custom-made

## Target Details

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### Target:

GLUT1 (SLC2A1)

### Alternative Name:

Slc2a1 ([SLC2A1 Products](#))

### Background:

Solute carrier family 2, facilitated glucose transporter member 1 (Glucose transporter type 1, erythrocyte/brain) (GLUT-1) (GT1),FUNCTION: Facilitative glucose transporter, which is responsible for constitutive or basal glucose uptake (PubMed:17320047, PubMed:35810171). Has a very broad substrate specificity, can transport a wide range of aldoses including both pentoses and hexoses (By similarity). Most important energy carrier of the brain: present at the blood-brain barrier and assures the energy-independent, facilitative transport of glucose into the brain (By similarity). In association with BSG and NXNL1, promotes retinal cone survival by increasing glucose uptake into photoreceptors (By similarity). Required for mesendoderm differentiation (PubMed:35810171). {ECO:0000250|UniProtKB:P111166, ECO:0000250|UniProtKB:P46896, ECO:0000269|PubMed:17320047, ECO:0000269|PubMed:25957687, ECO:0000269|PubMed:35810171}.

### Molecular Weight:

54.0 kDa

## Target Details

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UniProt: [P17809](#)

Pathways: [Sensory Perception of Sound, Dicarboxylic Acid Transport, Warburg Effect](#)

## Application Details

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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

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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