

SLC2A1 Blocking Peptide (C-term)
Synthetic peptide
Catalog # BP21407b**Specification**

SLC2A1 Blocking Peptide (C-term) - Product InformationPrimary Accession [P11166](#)**SLC2A1 Blocking Peptide (C-term) - Additional Information**

Gene ID 6513

Other Names

Solute carrier family 2, facilitated glucose transporter member 1, Glucose transporter type 1, erythrocyte/brain, GLUT-1, HepG2 glucose transporter, SLC2A1, GLUT1

Target/Specificity

The synthetic peptide sequence is selected from aa 464-477 of HUMAN SLC2A1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SLC2A1 Blocking Peptide (C-term) - Protein InformationName SLC2A1 ([HGNC:11005](#))**Function**

Facilitative glucose transporter, which is responsible for constitutive or basal glucose uptake (PubMed:18245775, PubMed:19449892, PubMed:25982116, PubMed:27078104, PubMed:10227690). Has a very broad substrate specificity; can transport a wide range of aldoses including both pentoses and hexoses (PubMed:18245775, PubMed:19449892). 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 (PubMed:10227690). In association with BSG and NXNL1, promotes retinal cone survival by increasing glucose uptake into photoreceptors (By similarity). Required for

mesendoderm differentiation (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein. Melanosome. Photoreceptor inner segment {ECO:0000250|UniProtKB:P17809}. Note=Localizes primarily at the cell surface (PubMed:18245775, PubMed:19449892, PubMed:23219802, PubMed:25982116, PubMed:24847886). Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:17081065)

Tissue Location

Detected in erythrocytes (at protein level). Expressed at variable levels in many human tissues

SLC2A1 Blocking Peptide (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

SLC2A1 Blocking Peptide (C-term) - Images

SLC2A1 Blocking Peptide (C-term) - Background

Facilitative glucose transporter. This isoform may be responsible for constitutive or basal glucose uptake. Has a very broad substrate specificity; can transport a wide range of aldoses including both pentoses and hexoses.

SLC2A1 Blocking Peptide (C-term) - References

Mueckler M.,et al.Science 229:941-945(1985).
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