10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SLC2A8 Blocking Peptide (Center)

Synthetic peptide
Catalog # BP22138c

Specification

SLC2A8 Blocking Peptide (Center) - Product Information

Primary Accession	Q9NY64
Other Accession	P58354

SLC2A8 Blocking Peptide (Center) - Additional Information

Gene ID 29988

Other Names
Solute carrier family 2, facilitated glucose transporter member 8, Glucose transporter type 8, GLUT-8, Glucose transporter type X1, SLC2A8, GLUT8, GLUTX1

Target/Specificity
The synthetic peptide sequence is selected from aa 280-292 of HUMAN SLC2A8

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.

SLC2A8 Blocking Peptide (Center) - Protein Information

Name SLC2A8 (HGNC:13812)

Function
Insulin-regulated facilitative hexose transporter that mediates the transport of glucose and fructose (By similarity). Facilitates hepatic influx of dietary trehalose, which in turn inhibits glucose and fructose influx triggering a starvation signal and hepatic autophagy through activation of AMPK and ULK1 (PubMed:27922102). Also able to mediate the transport of dehydroascorbate.

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:Q9JJZ1}; Multi-pass membrane protein. Cytoplasmic vesicle membrane {ECO:0000250|UniProtKB:Q9JJZ1}; Multi-pass membrane protein. Note=Principally intracellular. May move between intracellular vesicles and the plasma membrane. The dileucine internalization motif is critical for intracellular sequestration {ECO:0000250|UniProtKB:Q9JJZ1}

Tissue Location
Highly expressed in testis, but not in testicular carcinoma. Lower amounts present in most other tissues

SLC2A8 Blocking Peptide (Center) - Protocols

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

- Blocking Peptides

SLC2A8 Blocking Peptide (Center) - Images

SLC2A8 Blocking Peptide (Center) - Background

Insulin-regulated facilitative glucose transporter. Binds cytochalasin B in a glucose-inhibitable manner. Seems to be a dual-specific sugar transporter as it is inhibitable by fructose (By similarity).

SLC2A8 Blocking Peptide (Center) - References

Doege H.,et al.J. Biol. Chem. 275:16275-16280(2000).
Ibberson M.R.,et al.J. Biol. Chem. 275:4607-4612(2000).
Humphray S.J.,et al.Nature 429:369-374(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Burkard T.R.,et al.BMC Syst. Biol. 5:17-17(2011).