

SLC48A1 Blocking Peptide (C-term)

Synthetic peptide

Catalog # BP20053b

Specification

SLC48A1 Blocking Peptide (C-term) - Product Information

Primary Accession

[O6P1K1](#)

Other Accession

[B0BNL4](#), [Q9D8M3](#), [NP_060312.2](#)**SLC48A1 Blocking Peptide (C-term) - Additional Information**

Gene ID 55652

Other Names

Heme transporter HRG1, Heme-responsive gene 1 protein homolog, HRG-1, hHRG-1, Solute carrier family 48 member 1, SLC48A1, HRG1

Target/Specificity

The synthetic peptide sequence is selected from aa 128-141 of HUMAN SLC48A1

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.

SLC48A1 Blocking Peptide (C-term) - Protein InformationName SLC48A1 ([HGNC:26035](#))

Synonyms HRG1

Function

Heme transporter that regulates intracellular heme availability through the endosomal or lysosomal compartment (PubMed:18418376). In macrophages of the reticuloendothelial system, is the heme transporter for heme-iron recycling. Essential for macrophage iron homeostasis, transports heme from the phagolysosome to the cytoplasm during erythrophagocytosis (EP) (PubMed:23395172).

Cellular Location

Endosome membrane; Multi-pass membrane protein. Lysosome membrane; Multi-pass membrane protein. Cytoplasmic vesicle, phagosome membrane {ECO:0000250|UniProtKB:Q9D8M3}; Multi-pass membrane protein. Note=In macrophages, specifically localizes to the phagolysosomal

membranes during erythrophagocytosis {ECO:0000250|UniProtKB:Q9D8M3}

Tissue Location

Highly expressed in the brain, kidney, heart and skeletal muscle. Moderately expressed in the liver, lung, placenta and small intestine. Strongly expressed in macrophages of the reticuloendothelial system (PubMed:23395172)

SLC48A1 Blocking Peptide (C-term) - Protocols

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

- [Blocking Peptides](#)

SLC48A1 Blocking Peptide (C-term) - Images**SLC48A1 Blocking Peptide (C-term) - Background**

Heme transporter that regulates intracellular heme availability through the endosomal or lysosomal compartment.

SLC48A1 Blocking Peptide (C-term) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
O'Callaghan, K.M., et al. J. Biol. Chem. 285(1):381-391(2010)
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Rajagopal, A., et al. Nature 453(7198):1127-1131(2008)