

Datasheet for ABIN7551594
SLC15A4 Protein (AA 1-577) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC15A4
Protein Characteristics:	AA 1-577
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC15A4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat SLC15A4 Protein expressed in mammalien cells.
Sequence:	MEGSGGGAGE RAPLLGARRA AAAAAAAGAF AGRRAACGAV LLELLERAA FYGITSNLVL FLNGAPFCWE GAQASEALLL FMGLTYLGSP FGGWLADARL GRARAILLSL ALYLLGMLAF PLLAAPATRA ALCGSARLLN CTAPGPDAAA RCCSPATFAG LVLVGLGVAT VKANITPFGA DQVKDRGPEA TRRFFNWFYW SINLGAILSL GGIAYIQQNV SFVTGYAIPT VCVGLAFVVF LCGQSVFITK PPDGSAFTDM FKILTYSCCS QKRSGERQSN GEGIGVFQQS SKQSLFDSCK MSHGGPFTEE KVEDVKALVK IVPVFLALIP YWTVYFQMOT TYVLQSLHLR IPEISNITTT PHTLPAAWLT MFDVAVLILL IPLKDKLVDP ILRRHGLLPS SLKRIAVGMF FVMCSAFAAG ILESRLNLV KEKTINQIG NNVYHAADLS LWWQVPQYLL IGISEIFASI AGLEFAYSAA PKSMQSAIMG LFFFFSGVGS FVGSGLLALV SIKAIQWMSS HTDFGNINGC YLNYFFLLA AIQGATLLLF LIISVKYDHH RDHQRSRANG VPTSRRRA 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.

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, Western Blot

Grade:

custom-made

Target Details

Target:

SLC15A4

Alternative Name:

SLC15A4 ([SLC15A4 Products](#))

Background:

Solute carrier family 15 member 4 (Peptide transporter 4) (Peptide/histidine transporter 1) (hPHT1),FUNCTION: Proton-coupled amino-acid transporter that mediates the transmembrane transport of L-histidine and some di- and tripeptides from inside the lysosome to the cytosol, and plays a key role in innate immune response (PubMed:16289537, PubMed:25238095, PubMed:29224352). Able to transport a variety of di- and tripeptides, including carnosine and some peptidoglycans (PubMed:29224352, PubMed:31073693). Transporter activity is pH - dependent and maximized in the acidic lysosomal environment (By similarity). Involved in the detection of microbial pathogens by toll-like receptors (TLRs) and NOD-like receptors (NLRs), probably by mediating transport of bacterial peptidoglycans across the endolysosomal membrane: catalyzes the transport of certain bacterial peptidoglycans, such as muramyl dipeptide (MDP), the NOD2 ligand, and L-alanyl-gamma-D-glutamyl-meso-2,6-

Target Details

diaminoheptanedioate (tri-DAP), the NOD1 ligand (PubMed:25238095, PubMed:29224352). Required for TLR7, TLR8 and TLR9-mediated type I interferon (IFN-I) productions in plasmacytoid dendritic cells (pDCs) (PubMed:25238095). Independently of its transporter activity, also promotes the recruitment of innate immune adapter TASL to endolysosome downstream of TLR7, TLR8 and TLR9: TASL recruitment leads to the specific recruitment and activation of IRF5 (PubMed:32433612). Required for isotype class switch recombination to IgG2c isotype in response to TLR9 stimulation (By similarity). Required for mast cell secretory-granule homeostasis by limiting mast cell functions and inflammatory responses (By similarity). {ECO:0000250|UniProtKB:O09014, ECO:0000250|UniProtKB:Q91W98, ECO:0000269|PubMed:16289537, ECO:0000269|PubMed:25238095, ECO:0000269|PubMed:29224352, ECO:0000269|PubMed:31073693, ECO:0000269|PubMed:32433612}.

Molecular Weight: 62.0 kDa

UniProt: [Q8N697](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. 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