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Datasheet for ABIN7545059

SLC18A2 Protein (AA 1-514) (His tag)

Overview

Quantity:	1 mg
Target:	SLC18A2
Protein Characteristics:	AA 1-514
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC18A2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC18A2 Protein expressed in mammalian cells.
Sequence:	<p>MALSELALVR WLQESRRSRK LILFIVFLAL LLDNMLLTVV VPIIPSYLYS IKHEKNATEI QTARPVHTAS ISDSFQSIFS YYDNSTMVTG NATRDLTLHQ TATQHMVTNA SAVPSDCPSE DKDLLNENVQ VGLLFASKAT VQLITNPFIG LLTNRIGYPI PIFAGFCIMF VSTIMFAFSS SYAFLLIARS LQGIGSSCSS VAGMGMLASV YTDDEERGNV MGIALGGLAM GVLVGPFFGS VLYEFVGKTA PFLVLAALVL LDGAIQLFVL QPSRVQPESQ KGTPLTLLK DPYILIAAGS ICFANMGIAM LEPALPIWMM ETMCSRKWQL GVAFLPASPIS YLIGNIFGI LAHKMGRWLC ALLGMIIVGV SILCIPFAKN IYGLIAPNFG VGFAIGMVDS SMMPIMGYLV DLRHVSVYGS VYAIADVAFC MGYAIGPSAG GAIKAIGFP WLMTIIGIID ILFAPLCFFL RSPPAKEEKM AILMDHNCPI KTKMYTQNNI QSYPIGEDEE SESD 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.</p>

Product Details

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different 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

Target: SLC18A2

Alternative Name: SLC18A2 ([SLC18A2 Products](#))

Background: Synaptic vesicular amine transporter (Monoamine transporter) (Solute carrier family 18 member 2) (Vesicular amine transporter 2) (VAT2),FUNCTION: Electrogenic antiporter that exchanges one cationic monoamine with two intravesicular protons across the membrane of secretory and synaptic vesicles. Uses the electrochemical proton gradient established by the V-type proton-pump ATPase to accumulate high concentrations of monoamines inside the vesicles prior to their release via exocytosis. Transports a variety of catecholamines such as dopamine, adrenaline and noradrenaline, histamine, and indolamines such as serotonin (PubMed:8643547, PubMed:23363473). Regulates the transvesicular monoaminergic gradient that determines the quantal size. Mediates somatodendritic dopamine release in hippocampal neurons, likely as part of a regulated secretory pathway that integrates retrograde synaptic signals (By similarity). Acts as a primary transporter for striatal dopamine loading ensuring

Target Details

impulse-dependent release of dopamine at the synaptic cleft (By similarity). Responsible for histamine and serotonin storage and subsequent corelease from mast cell granules (PubMed:8860238) (By similarity). {ECO:0000250|UniProtKB:Q01827, ECO:0000250|UniProtKB:Q8BRU6, ECO:0000269|PubMed:23363473, ECO:0000269|PubMed:8643547, ECO:0000269|PubMed:8860238}.

Molecular Weight: 55.7 kDa

UniProt: [Q05940](#)

Application Details

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

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