

Datasheet for ABIN7545144

SLC18A1 Protein (AA 1-525) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC18A1
Protein Characteristics:	AA 1-525
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC18A1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC18A1 Protein expressed in mammalian cells.
Sequence:	<p>MLRTILDAPQ RLLKEGRASR QLVLVVVFVA LLLDNMLFTV VVPIVPTFLY DMEFKEVNSS</p> <p>LHLGHAGSSP HALASPAFST IFSFFNNNTV AVEESVPSGI AWMNDTASTI PPPATEAISA</p> <p>HKNNCLQGTG FLEEEITRVG VLFASKAVMQ LLVNPFGVPL TNRIGYHIPM FAGFVIMFLS</p> <p>TVMFAFSGTY TLLFVARTLQ GIGSSFSSVA GLGMLASVYT DDHERGRAMG TALGGLALGL</p> <p>LVGAPFGSVM YEFVGKSAPF LILAFLALLD GALQLCILQP SKVSPESAKG TPLFMLLKDP</p> <p>YILVAAGSIC FANMGVAILE PTLPIWMMQT MCSPKWQLGL AFLPASVSYL IGTNLFGVLA</p> <p>NKMGRWLCSL IGMLVVGTS LCVPLAHNIF GLIGPNAGLG LAIGMVDSSM MPIMGHLVDL</p> <p>RHTSVYGSVY AIADVAFCMG FAIGPSTGGA IVKAIGFPWL MVITGVINIV YAPLCYYLRS</p> <p>PPAKEEKLA L SQDCPMETR MYATQKPTKE FPLGEDSDEE PDHEE 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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	SLC18A1
Alternative Name:	SLC18A1 (SLC18A1 Products)
Background:	<p>Chromaffin granule amine transporter (Solute carrier family 18 member 1) (Vesicular amine transporter 1) (VAT1),FUNCTION: [Isoform 1]: 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 catecholamines and indolamines with higher affinity for serotonin (PubMed:23337945, PubMed:8643547, PubMed:16326835). Regulates the transvesicular monoaminergic gradient that determines the quantal size. Mediates presynaptic monoaminergic vesicle transport in the amygdala and prefrontal brain regions related with emotion processing in response to environmental stimuli (PubMed:23337945).</p> <p>{ECO:0000269 PubMed:16326835, ECO:0000269 PubMed:23337945,</p>

Target Details

	ECO:0000269 PubMed:8643547}., FUNCTION: [Isoform 2]: Unable to uptake serotonin. {ECO:0000269 PubMed:16326835}.
Molecular Weight:	56.3 kDa
UniProt:	P54219

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