

Datasheet for ABIN7545056

## SLC18A3 Protein (AA 1-532) (His tag)



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### Overview

Quantity:	1 mg
Target:	SLC18A3
Protein Characteristics:	AA 1-532
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC18A3 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant SLC18A3 Protein expressed in mammalian cells.
Sequence:	<p>MESAEPAGQA RAAATKLSEA VGAALQEPRR QRRLVLVIVC VALLLDNMLY MVIVPIVPDY  IAHMRGGGEG PTRTPEVWEP TLPLTPANA SAYTANTSAS PTAAWPAGSA LRPRYPTESE  DVKIGVLFAS KAILQLLVNP LSGPFIDRMS YDVPLLIGLG VMFASTVLFA FAEDYATLFA  ARSLQGLGSA FADTSGIAMI ADKYPEEPER SRALGVALAF ISFGSLVAPP FGGILYEFAG  KRVFPLVLAA VSLFDALLLL AVAKPFSAAA RARANLPVGT PIHRLMLDPY IAVVAGALTT  CNIPLAFLEP TIATWMKHTM AASEWEMGMA WLPAFVPHVL GVYLTVRLAA RYPHLQWLYG  ALGLAVIGAS SCIVPACRSF APLVVSCLGL CFGIALVDTA LLPTLAFLVD VRHVSVYGSV  YAIADISYSV AYALGPVIVAG HIVHSLGFEQ LSLGMGLANL LYAPVLLLLR NVGLLTRSRS  ERDVLLDEPP QGLYDAVRLR ERPVSGQDGE PRSPPGPFDA CEDDYNYYT RS</p> <p><b>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.</b></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><b>Key Benefits:</b></p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <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:	SLC18A3
Alternative Name:	SLC18A3 ( <a href="#">SLC18A3 Products</a> )
Background:	<p>Vesicular acetylcholine transporter (VACHT) (Solute carrier family 18 member 3),FUNCTION: Electrogenic antiporter that exchanges one cholinergic neurotransmitter, acetylcholine or choline, with two intravesicular protons across the membrane of synaptic vesicles. Uses the electrochemical proton gradient established by the V-type proton-pump ATPase to store neurotransmitters inside the vesicles prior to their release via exocytosis (PubMed:8910293, PubMed:20225888) (By similarity). Determines cholinergic vesicular quantal size at presynaptic nerve terminals in developing neuro-muscular junctions with an impact on motor neuron differentiation and innervation pattern (By similarity). Part of forebrain cholinergic system, regulates hippocampal synapse transmissions that underlie spatial memory formation (By similarity). Can transport serotonin. {ECO:0000250 UniProtKB:O35304, ECO:0000250 UniProtKB:Q62666, ECO:0000269 PubMed:20225888,</p>

### Target Details

	ECO:0000269 PubMed:25355561, ECO:0000269 PubMed:8910293}.
Molecular Weight:	56.9 kDa
UniProt:	<a href="#">Q16572</a>

### 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