

Datasheet for ABIN7556484

SLC1A3 Protein (AA 1-543) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC1A3
Protein Characteristics:	AA 1-543
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC1A3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Slc1a3 Protein expressed in mammalian cells.
Sequence:	<p>MTKSNGEEPR MGGRMERLQQ GVRKRTLLAK KKVQSLTKED VKSYLFRNAF VLLTVTAVIV GTILGFALRP YKMSYREVKY FSFPGELLMR MLQMLVLPLI ISSLVTGMAA LDSKASGKMG MRAVVYYMTT TIIAVVIGII IVIIHPGKG TKENMYREGK IVQVTAADAF LDLIRNMFPP NLVEACFKQF KTSYEKRSFK VPIQSNETLL GAVINNVSEA METLTRIREE MVPVPGSVNG VNALGLVVFS MCFGFVIGNM KEQGQALREF FDSLNEAIMR LVAVIMWYAP LGILFLIAGK IVEMEDMGVI GGQLAMYTVT VIVGLLIHAV IVLPLLYFLV TRKNPWVFIG GLLQALITAL GTSSSSATLP ITFKCLEENN GVDKRITRFV LPVGATINMD GTALYEALAA IFIAQVNNFD LNFGQIITIS ITATAASIGA AGIPQAGLVT MVIVLTSVGL PTDDITLIIA VDWFLDRLRT TTNVLGDSL AGIVEHLRSH ELKNRDVEMG NSVIEENEMK KPYQLIAQDN EPEKPVADSE TKM</p> <p>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:	SLC1A3
Alternative Name:	Slc1a3 (SLC1A3 Products)
Background:	<p>Excitatory amino acid transporter 1 (Glial high affinity glutamate transporter) (High-affinity neuronal glutamate transporter) (GluT-1) (Sodium-dependent glutamate/aspartate transporter 1) (GLAST-1) (Solute carrier family 1 member 3),FUNCTION: Sodium-dependent, high-affinity amino acid transporter that mediates the uptake of L-glutamate and also L-aspartate and D-aspartate (PubMed:7903437, PubMed:28032905). Functions as a symporter that transports one amino acid molecule together with two or three Na(+) ions and one proton, in parallel with the counter-transport of one K(+) ion (By similarity). Plays a redundant role in the rapid removal of released glutamate from the synaptic cleft, which is essential for terminating the postsynaptic action of glutamate (PubMed:15363892, PubMed:15390100, PubMed:16880397). {ECO:0000250 UniProtKB:O57321, ECO:0000269 PubMed:15363892, ECO:0000269 PubMed:15390100, ECO:0000269 PubMed:16880397,</p>

Target Details

	ECO:0000269 PubMed:28032905, ECO:0000269 PubMed:7903437}.
Molecular Weight:	59.6 kDa
UniProt:	P56564
Pathways:	Sensory Perception of Sound , Synaptic Membrane , Dicarboxylic Acid Transport

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