

Datasheet for ABIN7555404

SLC38A2 Protein (AA 1-506) (His tag)



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Overview

Quantity:	1 mg
Target:	SLC38A2
Protein Characteristics:	AA 1-506
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC38A2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SLC38A2 Protein expressed in mammalian cells.
Sequence:	<p>MKKAEMGRFS ISPDEDSSSY SSNSDFNYSY PTKQAALKSH YADVDPENQN FLLESNLGKK</p> <p>KYETEFHPGT TSFGMSVFNL SNAIVGSGIL GLSYAMANTG IALFIILLTF VSIFSLYSVH</p> <p>LLLKTANEGG SLLYEQLGYK AFGLVGKLAA SGSITMQNIG AMSSYLFIVK YELPLVIQAL</p> <p>TNIEDKTGLW YLNGNYLVLL VSLVVILPLS LFRNLGYLGY TSGLSLLCMV FFLIVVICKK</p> <p>FQVPCPVEAA LIINETINTT LTQPTALVPA LSHNVTENDS CRPHYFIFNS QTVYAVPILI</p> <p>FSFVCHPAVL PIYEELKDRS RRRMMNVSKI SFFAMFLMYL LAALFGYLT F YEHVESELLH</p> <p>TYSSILGTDI LLLIVRLAVL MAVTLTVPVV IFPIRSSVTH LLCASKDFSW WRHSLITVSI LAFTNLLVIF</p> <p>VPTIRDIFGF IGASAASMLI FILPSAFYIK LVKKEPMKSV QKIGALFFLL SGVLVMTGSM</p> <p>ALIVLDWVHN APGGGH 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>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

Product Details

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:

SLC38A2

Alternative Name:

SLC38A2 ([SLC38A2 Products](#))

Background:

Sodium-coupled neutral amino acid symporter 2 (Amino acid transporter A2) (Protein 40-9-1) (Solute carrier family 38 member 2) (System A amino acid transporter 2) (System A transporter 1) (System N amino acid transporter 2),FUNCTION: Symporter that cotransports neutral amino acids and sodium ions from the extracellular to the intracellular side of the cell membrane (PubMed:10930503, PubMed:15922329, PubMed:16621798, PubMed:15774260). The transport is pH -sensitive, Li(+)-intolerant, electrogenic, driven by the Na(+) electrochemical gradient and cotransports of neutral amino acids and sodium ions with a stoichiometry of 1:1. May function in the transport of amino acids at the blood-brain barrier (PubMed:10930503, PubMed:15774260). May function in the transport of amino acids in the supply of maternal nutrients to the fetus through the placenta (By similarity). Maintains a key metabolic glutamine/glutamate balance underpinning retrograde signaling by dendritic release of the neurotransmitter glutamate (By similarity). Transports L-proline in differentiating osteoblasts

Target Details

for the efficient synthesis of proline-enriched proteins and provides proline essential for osteoblast differentiation and bone formation during bone development (By similarity).
{ECO:0000250|UniProtKB:Q8CFE6, ECO:0000250|UniProtKB:Q9JHE5,
ECO:0000269|PubMed:10930503, ECO:0000269|PubMed:15774260,
ECO:0000269|PubMed:15922329, ECO:0000269|PubMed:16621798}.

Molecular Weight: 56.0 kDa

UniProt: [Q96QD8](#)

Pathways: [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