Datasheet for ABIN7564337

SLC38A9 Protein (AA 1-560) (His tag)

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Overview

Quantity:	1 mg
Target:	SLC38A9
Protein Characteristics:	AA 1-560
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC38A9 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Slc38a9 Protein expressed in mammalian cells.
Sequence:	MASVDGDSRH LLSEVEHEVS PGPMNIQFDS SDLRSKRPFY IEPTNIVNVN DVIQRVSDHA AAMNKRIHYY SRLTTPADKA LIAPDHVVPA PEECYVYSPL GSAYKLKSYT EGYGKNTSLV TIFMIWNTMM GTSILSIPWG IKQAGFTTGM CVIVLMGLLT LYCCYRVVKS RSTISTSDTS TWEYPDVCKH YFGSFGQWSS LLFSLVSLIG AMIVYWVLMS NFLFNTGKFI FNFIHHINDT DTVLSTNNSN PVICPNAGSG GRPDNSSMIF YNNNTEVQLF EKWWDKSRTV PFYLIGLLLP LLNFKSPSFF SKFNILGTVS VLYLIFVVTL KAVRLGFHLE FHWFVPTEFF VPEIRAQFPQ LMGVLTLAFF IHNCIITLLK NNKNQENNVR DLCIAYMLVT LTYLYIGILV FASFPSPPLP KDCIEQNFLD NFPSSDILSF IARIFLLFQM MTVYPLLGYL ARVQLLGHIF GDIYPSIFHV LILNLVIVGA GVTMACFYPN IGGIIRYSGA ACGLAFVFIY PSLIYIISLH QEERLTWPKL VFHVIIIILG LANLIAQFFM **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.**

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:	SLC38A9
Alternative Name:	Slc38a9 (SLC38A9 Products)
Background:	Neutral amino acid transporter 9 (Solute carrier family 38 member 9),FUNCTION: Lysosomal amino acid transporter involved in the activation of mTORC1 in response to amino acid levels. Probably acts as an amino acid sensor of the Rag GTPases and Ragulator complexes, 2 complexes involved in amino acid sensing and activation of mTORC1, a signaling complex promoting cell growth in response to growth factors, energy levels, and amino acids. Following activation by amino acids, the Ragulator and Rag GTPases function as a scaffold recruiting mTORC1 to lysosomes where it is in turn activated. SLC38A9 mediates transport of amino acids with low capacity and specificity with a slight preference for polar amino acids. Acts as an arginine sensor. Following activation by arginine binding, mediates transport of L-glutamine, leucine and tyrosine with high efficiency, and is required for the efficient utilization of these amino acids after lysosomal protein degradation. However, the transport mechanism is not well

Target Details

	defined and the role of sodium is not clear. Can disassemble the lysosomal folliculin complex (LFC), and thereby triggers GAP activity of FLCN:FNIP2 toward RRAGC. Acts as an cholesterol sensor that conveys increases in lysosomal cholesterol, leading to lysosomal recruitment and activation of mTORC1 via the Rag GTPases. Guanine exchange factor (GEF) that, upon arginine binding, stimulates GDP release from RRAGA and therefore activates the Rag GTPase heterodimer and the mTORC1 pathway in response to nutrient sufficiency. {ECO:0000250|UniProtKB:Q8NBW4}.
Molecular Weight:	63.4 kDa
UniProt:	Q8BGD6

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