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SLC38A9 Protein (AA 1-118) (His tag)



Image



Go to Product page

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RVSDHA		
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Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a		
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cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in bacterial culture:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Crystallography grade

Target Details

Target:	SLC38A9	
Alternative Name:	Slc38a9 (SLC38A9 Products)	
Background:	Lysosomal amino acid transporter involved in the activation of mTORC1 in response to amino	
	acids. 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	

Target Details

Storage Comment:

Expiry Date:

Store at -80°C.

Unlimited (if stored properly)

Target Details		
	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, suggesting that it acts as an amino acid sensor instead. The high concentration of arginine in lysosomes suggests that it acts as an arginine sensor. {ECO:0000250 UniProtKB:Q8NBW4}.	
Molecular Weight:	14.1 kDa Including tag.	
UniProt:	Q8BGD6	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.	
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	

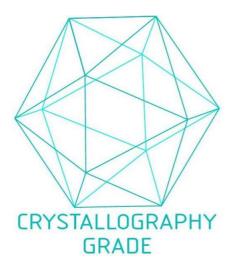


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process