Datasheet for ABIN7556726

Syntaxin 4 Protein (STX4) (AA 1-298) (His tag)

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Overview

Quantity:	1 mg
Target:	Syntaxin 4 (STX4)
Protein Characteristics:	AA 1-298
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Syntaxin 4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Stx4 Protein expressed in mammalian cells.
Sequence:	MRDRTHELRQ GDNISDDEDE VRVALVVHSG AARLGSPDDE FFQKVQTIRQ TMAKLESKVR ELEKQQVTIL ATPLPEESMK QGLQNLREEI KQLGREVRAQ LKAIEPQKEE ADENYNSVNT RMKKTQHGVL SQQFVELINK CNSMQSEYRE KNVERIRRQL KITNAGMVSD EELEQMLDSG QSEVFVSNIL KDTQVTRQAL NEISARHSEI QQLERSIREL HEIFTFLATE VEMQGEMINR IEKNILSSAD YVERGQEHVK IALENQKKAR KKKVMIAICV SVTVLILAVI IGITITVG **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.**
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:

Product Details

- 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:	Syntaxin 4 (STX4)
Alternative Name:	Stx4 (STX4 Products)
Background:	Syntaxin-4,FUNCTION: Plasma membrane t-SNARE that mediates docking of transport vesicles. Necessary for the translocation of SLC2A4 from intracellular vesicles to the plasma membrane. In neurons, recruited at neurite tips to membrane domains rich in the phospholipid 1-oleoyl-2-palmitoyl-PC (OPPC) which promotes neurite tip surface expression of the dopamine transporter SLC6A3/DAT by facilitating fusion of SLC6A3-containing transport vesicles with the plasma membrane (By similarity). Together with STXB3 and VAMP2, may also play a role in docking/fusion of intracellular GLUT4-containing vesicles with the cell surface in adipocytes and in docking of synaptic vesicles at presynaptic active zones. {ECO:0000250|UniProtKB:Q08850, ECO:0000269|PubMed:10394363, ECO:0000269|PubMed:18827011, ECO:0000269|PubMed:9045631}.
Molecular Weight:	34.2 kDa
UniProt:	P70452
Pathways:	Synaptic Vesicle Exocytosis

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