Datasheet for ABIN7559403

LIN7A Protein (AA 1-233) (His tag)

3 Images

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Overview

Quantity:	1 mg
Target:	LIN7A
Protein Characteristics:	AA 1-233
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LIN7A protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Lin7a Protein expressed in mammalian cells.
Sequence:	MLKPSVTSAP TADMATLTVV QPLTLDRDVA RAIELLEKLQ ESGEVPVHKL QSLKKVLQSE FCTAIREVYQ YMHETITVNG CPEFRARATA KATVAAFAAS EGHSHPRVVE LPKTDEGLGF NVMGGKEQNS PIYISRIIPG GVAERHGGLK RGDQLLSVNG VSVEGEHHEK AVELLKAAKD SVKLVVRYTP KVLEEMEARF EKLRTARRRQ QQQLLIQQQQ QQQQQQPQQN HMS **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: • Made to order protein - from design to production - by highly experienced protein experts.

Product Details

	• 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:	LIN7A
Alternative Name:	Lin7a (LIN7A Products)
Background:	Protein lin-7 homolog A (Lin-7A) (mLin-7) (Mammalian lin-seven protein 1) (MALS-1) (Vertebrate lin-7 homolog 1) (Veli-1),FUNCTION: Plays a role in establishing and maintaining the asymmetric distribution of channels and receptors at the plasma membrane of polarized cells. Forms membrane-associated multiprotein complexes that may regulate delivery and recycling of proteins to the correct membrane domains. The tripartite complex composed of LIN7 (LIN7A, LIN7B or LIN7C), CASK and APBA1 associates with the motor protein KIF17 to transport vesicles containing N-methyl-D-aspartate (NMDA) receptor subunit NR2B along microtubules (PubMed:10846156). This complex may have the potential to couple synaptic vesicle exocytosis to cell adhesion in brain. Ensures the proper localization of GRIN2B (subunit 2B of the NMDA receptor) to neuronal postsynaptic density and may function in localizing synaptic vesicles at synapses where it is recruited by beta-catenin and cadherin. Required to localize Kir2 channels, GABA transporter (SLC6A12) and EGFR/ERBB1, ERBB2, ERBB3 and ERBB4 to the basolateral membrane of epithelial cells. {ECO:0000269|PubMed:10846156, ECO:0000269|PubMed:14622577}.
Molecular Weight:	26.0 kDa

Target Details

UniProt:	Q8JZS0
Pathways:	Synaptic Membrane

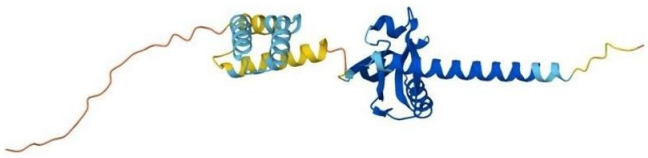
Application Details

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

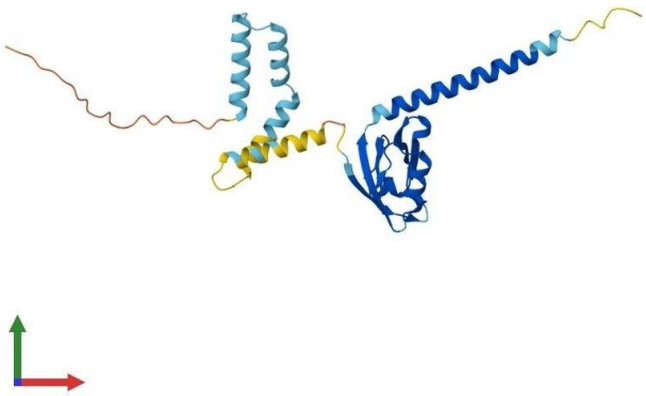
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

Images



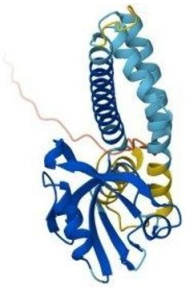
Protein Structure

Image 1. AlphaFold protein structure predicition of Mouse Recombinant Lin7a Protein, UniprotID Q8JZS0



Protein Structure

Image 2. AlphaFold protein structure predicition of Mouse Recombinant Lin7a Protein, UniprotID Q8JZS0



Protein Structure

Image 3. AlphaFold protein structure predicition of Mouse Recombinant Lin7a Protein, UniprotID Q8JZS0