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Datasheet for ABIN7556638

Complexin 1 Protein (CPLX1) (AA 1-134) (His tag)

Overview

Quantity:	1 mg
Target:	Complexin 1 (CPLX1)
Protein Characteristics:	AA 1-134
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Complexin 1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Cplx1 Protein expressed in mammalian cells.
Sequence:	MEFVMKQALG GATKDMGKML GGDEEKDPDA AKKEEERQEA LRQAEEERKA KYAKMEAERE VMRQGIRDKY GIKKKEEREA EAQAAMEANS EGSLTRPKKA IPPGCGDEPE EEDESILDTV IKYLPGLQD MFKK 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: <ul style="list-style-type: none">• 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.

Product Details

- 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:	Complexin 1 (CPLX1)
Alternative Name:	Cplx1 (CPLX1 Products)
Background:	Complexin-1 (921-S) (Complexin I) (CPX I) (Synaphin-2),FUNCTION: Positively regulates a late step in exocytosis of various cytoplasmic vesicles, such as synaptic vesicles and other secretory vesicles (PubMed:23345244). Organizes the SNAREs into a cross-linked zigzag topology that, when interposed between the vesicle and plasma membranes, is incompatible with fusion, thereby preventing SNAREs from releasing neurotransmitters until an action potential arrives at the synapse (PubMed:23345244). Also involved in glucose-induced secretion of insulin by pancreatic beta-cells. Essential for motor behavior (PubMed:15126625, PubMed:16000319). {ECO:0000269 PubMed:15126625, ECO:0000269 PubMed:16000319, ECO:0000269 PubMed:23345244}.
Molecular Weight:	15.1 kDa
UniProt:	P63040
Pathways:	Hormone Transport, Synaptic Vesicle Exocytosis, 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.
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Application Details

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