

Datasheet for ABIN7563272
SYT2 Protein (AA 1-422) (His tag)



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Overview

Quantity:	1 mg
Target:	SYT2
Protein Characteristics:	AA 1-422
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SYT2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Syt2 Protein expressed in mammalian cells.
Sequence:	<p>MRNIFKRNQE PNVAPATTTA TMPLAPVAPA DNSTESTGPG ESQEDMFAKL KEKFFNEINK IPLPPWALIA MAVVAGLLLL TCCFCICKKC CCKKKKNKKE KGKGMKNAMN MKDMKGGQDD DDAETGLTEG EGEHEEKEP ENLGKLFSL DYDFQANQLT VGLVQAAELP ALDMGGTSDP YVKVFLLPDK KKKYETKVHR KTLNPAFNET FTFKVPYQEL AGKTLVMAIY DFDRFSKHDI IGEYKVPMT VDLGQPIEEW RDLQGGEKEE PEKLGDICTSLRYVPTAGKLTVCILEAKNL KKMDVGGSLSD PYVKIHLMQN GKRLKKKKT VKKKTLNPFY NESFSFEIPF EQIQKVQVVV TVLDYDKLGK NEAIGKIFVG SNATGTELRH WSDMLANPRR PIAQWHSLKP EEEVDALLGK NK</p> <p>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.</p>
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.

Product Details

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:

SYT2

Alternative Name:

Syt2 ([SYT2 Products](#))

Background:

Synaptotagmin-2 (Inositol polyphosphate-binding protein) (IP4-binding protein) (IP4BP) (Synaptotagmin II) (SytII),FUNCTION: Exhibits calcium-dependent phospholipid and inositol polyphosphate binding properties (PubMed:7961887). May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse (PubMed:7961887). Plays a role in dendrite formation by melanocytes (By similarity). {ECO:0000250|UniProtKB:Q8N9I0, ECO:0000269|PubMed:7961887}., FUNCTION: (Microbial infection) Receptor for C.botulinum neurotoxin type B (BoNT/B, botB), interaction is improved in the presence of gangliosides (PubMed:14504267). The toxin binds via the vesicular domain (residues 47-60) (PubMed:14504267, PubMed:17167418, PubMed:23807078). {ECO:0000269|PubMed:14504267, ECO:0000269|PubMed:17167418, ECO:0000269|PubMed:23807078}., FUNCTION: (Microbial infection) Receptor for C.botulinum neurotoxin type G (BoNT/G, botG), gangliosides are not required for (or only very slightly improve) binding to a membrane-anchored receptor fragment (PubMed:20219474). The toxin

Target Details

binds via the vesicular domain (residues 47-55) (PubMed:20219474).
{ECO:0000269|PubMed:20219474}.

Molecular Weight: 47.3 kDa

UniProt: [P46097](#)

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