

Datasheet for ABIN7544116  
**SYN1 Protein (AA 1-705) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SYN1
Protein Characteristics:	AA 1-705
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SYN1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant SYN1 Protein expressed in mammalian cells.
Sequence:	<p>MNYLRRRLSD SNFMANLPNG YMTDLQRPQP PPPPPGAHSP GATPGPGTAT AERSSGVAPA ASPAAPSPGS SGGGGFFSSL SNAVKQTAA AAATFSEVQG GSGGAGRGG AASRVLLVID EPHTDWAKYF KGKKIHGEID IKVEQAEFSD LNLVAHANGG FSDMEVLRN GVKVVRSLKP DFVLIRQHAF SMARNGDYRS LVIGLQYAGI PSVNSLHSVY NFCDKPWFVA QMVRLHKKLG TEEFPLIDQT FYPNHKEMLS STTYPVVVKM GHAHSGMGKV KVDNQHDFQD IASVVALTKT YATAEPFIDA KYDVRVQKIG QNYKAYMRTS VSGNWKNTG SAMLEQIAMS DRYKLWVDTG SEIFGGLDIC AVEALHGKDG RDHIIEVVGS SMPLIGDHQD EDKQLLEVELV VNKMAQALPR QRQRDASPGR GSHGQTPSPG ALPLGRQTSQ QPAGPPAQQR PPPQGGPPQP GPGPQRQGPP LQQRPPPQGG QHLSGLGPPA GSPLPQLRPS PTSAPQQPAS QAAPPTQGQG RQSRPVAGGP GAPPAARPPA SPSPQRQAGP PQATRQTSVS GPAPPKASGA PPGGQQRQGP PPKPPGPAGP TRQASQAGPV PRTGPPTTQQ PRPSGPGPAG RPKPQLAQKP SQDVPPATA AAGGPPHPQL NKSQSLTNAF NLPEPAPPRP SLSQDEVKAE TIRSLRKSFA SLFSD <b>Sequence without tag. The</b></p>

## Product Details

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**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.
- 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

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Target: SYN1

Alternative Name: SYN1 ([SYN1 Products](#))

Background: Synapsin-1 (Brain protein 4.1) (Synapsin I),FUNCTION: Neuronal phosphoprotein that coats synaptic vesicles, and binds to the cytoskeleton. Acts as a regulator of synaptic vesicles trafficking, involved in the control of neurotransmitter release at the pre-synaptic terminal (PubMed:21441247, PubMed:23406870). Also involved in the regulation of axon outgrowth and synaptogenesis (By similarity). The complex formed with NOS1 and CAPON proteins is necessary for specific nitric-oxid functions at a presynaptic level (By similarity).  
{ECO:0000250|UniProtKB:O88935, ECO:0000250|UniProtKB:P09951, ECO:0000269|PubMed:21441247, ECO:0000269|PubMed:23406870}.

## Target Details

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Molecular Weight: 74.1 kDa

UniProt: [P17600](#)

## Application Details

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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

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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