

Datasheet for ABIN7555669  
**SV2C Protein (AA 1-727) (His tag)**



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3 Images

## Overview

Quantity:	1 mg
Target:	SV2C
Protein Characteristics:	AA 1-727
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SV2C protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant SV2C Protein expressed in mammalian cells.
Sequence:	<p>MEDSYKDRTS LMKGAKDIAR EVKKQTVKKV NQAVDRAQDE YTQRSYSRFQ DEEDDDDYYP</p> <p>AGETYNGEAN DDEGSSEATE GHDEDEIYE GEYQGIPSMN QAKDSIVSVG QPKGDEYKDR</p> <p>RELESERRAD EEELAQQYEL IIQECGHGRF QWALFFVLGM ALMADGVEVF VVGFLVPSAE</p> <p>TDLCPNSGS GWLGSIVYLG MMVGAFWGG LADKVGRKQS LLICMSVNGF FAFSSFVQG</p> <p>YGFFLCRLL SGFGIGGAIP TVFSYFAEVL AREKRGEHLS WLCMFWMIGG IYASAMAWAI</p> <p>IPHYGWSFSM GSAYQFHSWR VFVIVCALPC VSSVVALTFM PESPRFLLV GKHDEAWMIL</p> <p>KLIHDTNMRA RGQPEKVFTV NIKITPKQID ELIEIESDTG TWYRRCFVRI RTELGIWLT</p> <p>FMRCFNYPVR DNTIKLTIVW FTLSFGYYGL SVWFPDVIKP LQSDYALLT RNVERDKYAN</p> <p>FTINFMTENQ IHTGMEYDNG RFIGVKFKSV TFKDSVFKSC TFEDVTSVNT YFKNCTFIDT</p> <p>VFDNTDFEPY KFIDSEFKNC SFFHNKTGCQ ITFDDDYSA WIYFVNFLGT LAVLPGNIVS</p> <p>ALLMDRIGRL TMLGGSMVLS GISCFLLWFG TSESMMIGML CLYNGLTISA WNSLDVVTVE</p> <p>LYPTDRRATG FGFLNALCKA AAVLGNLIFG SLVSITSIP ILLASTVLVC GGLVGLCLPD TRTQVLM</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.**

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:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	SV2C
Alternative Name:	SV2C (SV2C Products)
Background:	<p>Synaptic vesicle glycoprotein 2C,FUNCTION: Plays a role in the control of regulated secretion in neural and endocrine cells, enhancing selectively low-frequency neurotransmission. Positively regulates vesicle fusion by maintaining the readily releasable pool of secretory vesicles. {ECO:0000250 UniProtKB:Q9Z2I6}., FUNCTION: (Microbial infection) Receptor for C.botulinum neurotoxin type A (BoNT/A, botA), the toxin probably binds via extracellular loop 4 (PubMed:27313224). Recognition by BoNT/A relies on both protein-protein and protein-N-glycosylation, glycosylation of Asn-559 increases its affinity for BoNT/A (PubMed:27313224). Also serves as a receptor for the closely related C.botulinum neurotoxin type A2, glycosylation</p>

## Target Details

is not essential but enhances the interaction (PubMed:29649119).  
{ECO:0000269|PubMed:24240280, ECO:0000269|PubMed:27294781,  
ECO:0000269|PubMed:27313224, ECO:0000269|PubMed:28252640,  
ECO:0000269|PubMed:29649119}., FUNCTION: (Microbial infection) Possible receptor for  
C.botulinum neurotoxin type D (BoNT/D, botD), note that type D does not usually infect humans.  
{ECO:0000269|PubMed:21483489}.

Molecular Weight: 82.3 kDa

UniProt: [Q496J9](#)

## 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

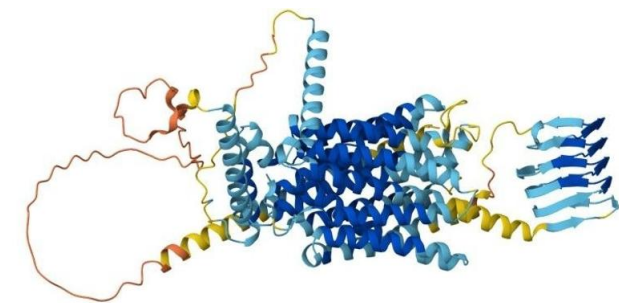
Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

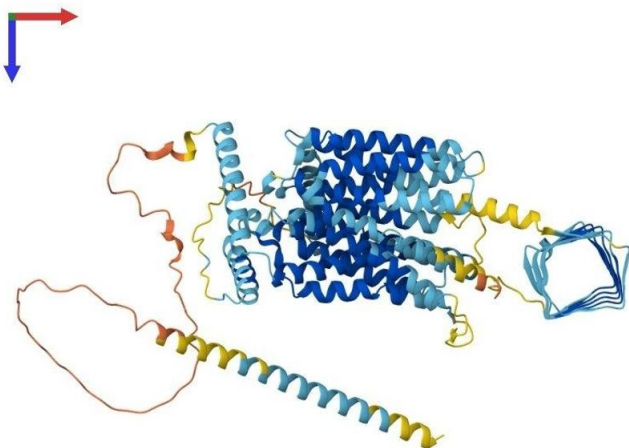
Storage Comment: Store at -80°C.

Expiry Date: 12 months



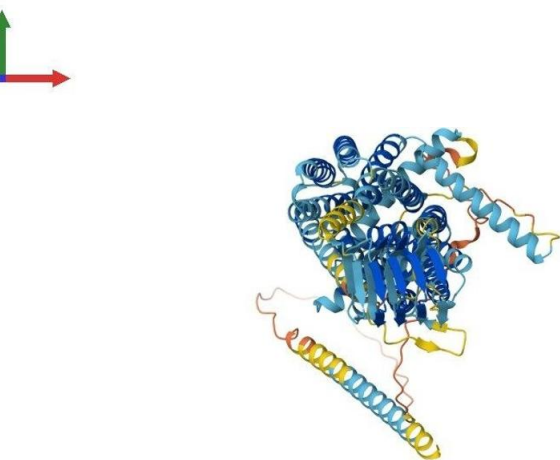
Protein Structure

**Image 1.** AlphaFold protein structure prediction of Human Recombinant SV2C Protein, UniprotID Q496J9



Protein Structure

**Image 2.** AlphaFold protein structure prediction of Human Recombinant SV2C Protein, UniprotID Q496J9



Protein Structure

**Image 3.** AlphaFold protein structure prediction of Human Recombinant SV2C Protein, UniprotID Q496J9