

Datasheet for ABIN7561554
SV2A Protein (AA 1-742) (His tag)



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Overview

Quantity:	1 mg
Target:	SV2A
Protein Characteristics:	AA 1-742
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SV2A protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Sv2a Protein expressed in mammalian cells.
Sequence:	<pre>MEEGFRDRAA FIRGAKDIK EVKKHAAKKV VKGLDRVQDE YSRRSYSRFE EEDDDDDFFPA PADGYRGEQ AQDEEEGGAS SDATEGHDED DEIYEGEYQG IPRAESGGKG ERMADGAPLA GVRGGLSDGE GPPGGRGEAQ RRKDREELAQ QYETILRECG HGRFQWTLYF VLGLALMADG VEVFVGVFVL PSAEKDMCLS DSNKGMLGLI VYLGMMVGAF LWGGLADRLG RRQCLLISLS VNSVFAFFSS FVQGYGTFLF CRLLSGVGIG GSIPIVFSYF SEFLAQEKRG EHLSWLCMFV MIGGVYAAAM AWAIIPHYGW SFQMGSAYQF HSWRVFVLCV AFPSVFAIGA LTTQPESPRF FLENGKHDEA WMVLKQVHDT NMRKAGHPER VFSVTHIKTI HQEDELIEIQ SDTGTWYQRW GVRALSLGGQ VWGNFLSCFS PEYRRITLMM MGWVFTMSFS YYGLTVWFPD MIRHLQAVDY AARTKVFPGE RVEHVTFNFT LENQIHRGGQ YFNDKFIGLR LKSVSFEDSL FEECYFEDVT SSNTFFRNCT FINTVFYNTD LFEYKFVNSR LVNSTFLHNK EGCLDVTGT GEGAYMVYFV SFLGTLAVLP GNIVSALLMD KIGRLRMLAG SSVLSCVSCF FLSFGNSES A MIALLCFLGG VSIASWNA LD VLTVELYPSD KRRTAFGFLN ALCKLAAVLG ISIFTSFVGI TKAAPILFAS</pre>

Product Details

AALALGSSLA LKLPETRGQV LQ **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.
- 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: SV2A

Alternative Name: Sv2a ([SV2A Products](#))

Background: Synaptic vesicle glycoprotein 2A (Synaptic vesicle protein 2) (Synaptic vesicle protein 2A) (Calcium regulator SV2A),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., FUNCTION: (Microbial infection) Receptor for C.botulinum neurotoxin type A (BoNT/A, botA), the toxin probably binds via extracellular loop 4 (PubMed:16543415). {ECO:0000269|PubMed:16543415}., FUNCTION: (Microbial infection) Possible receptor for C.botulinum neurotoxin type D (BoNT/D, botD), BoNT/D does not bind to extracellular loop 4 as

Target Details

do BoNT/A and BoNT/E (PubMed:21483489). {ECO:0000269|PubMed:21483489}., FUNCTION: (Microbial infection) Receptor for C.botulinum neurotoxin type E (BoNT/E), the toxin probably binds via extracellular loop 4 (PubMed:18815274). It probably requires glycosylation of Asn-573 (PubMed:18815274). {ECO:0000269|PubMed:18815274, ECO:0000305|PubMed:18815274}.

Molecular Weight: 82.6 kDa

UniProt: [Q9JIS5](#)

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