

Datasheet for ABIN7546354

SLIT-ROBO rho GTPase Activating Protein 2C (SRGAP2C) (AA 1-459) protein (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	SLIT-ROBO rho GTPase Activating Protein 2C (SRGAP2C)
Protein Characteristics:	AA 1-459
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat SRGAP2C Protein expressed in mammalian cells.
Sequence:	MTSPAKFKKD KEIIAEYDTQ VKEIRAQLTE QMKCLDQQCE LRVQLLQDLQ DFFRKKAEIE MDYSRNLEKL AEHFLAKTRS TKDQQFKKDQ NVLSPVNCWN LLLNQVKWES RDHTTLSDIY LNNIIPRFVQ VSEDSGRLFK KSKEVGQQLQ DDLMKVLNEL YSVMKTYHMY NADSISAQSK LKEAEKQEEK QIGKSVKQED RQTPCSPDST ANVRIEEKHV RRSSVKKIEK MKEKHQAKYT ENKLKAIKAQ NEYLLALEAT NASVFKYYIH DLSDLIDQCC DLGYHASLNR ALRTFLSAEL NLEQSKHEGL DAIENAVENL DATSDKQRLM EMYNNVFCPP MKFEFQPHMG DMASQLCAQQ PVQSELVQRC QQLQSRLSTL KIENEEVKKT MEATLQTIQD IVTVEDFDVS DCFQYSNSME SVKSTVSETF MSKPSIAKRR ANQQETEYFY FTVRECYGF 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.

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, Western Blot

Grade:

custom-made

Target Details

Target:

SLIT-ROBO rho GTPase Activating Protein 2C (SRGAP2C)

Alternative Name:

SRGAP2C ([SRGAP2C Products](#))

Background:

SLIT-ROBO Rho GTPase-activating protein 2C (SLIT-ROBO Rho GTPase activating protein 2 pseudogene 1),FUNCTION: Human-specific protein that acts as a key modifier of cortical connectivity in the human brain (PubMed:22559944, PubMed:27373832, PubMed:34707291). Acts by inhibiting the functions of ancestral paralog SRGAP2/SRGAP2A, a postsynaptic protein that regulates excitatory and inhibitory synapse maturation and density in cortical pyramidal neurons (PubMed:22559944, PubMed:27373832). SRGAP2C is unstable but is able to heterodimerize with SRGAP2/SRGAP2A, thereby reducing SRGAP2/SRGAP2A levels through proteasome-dependent degradation (PubMed:27373832, PubMed:28333212, PubMed:31822692). Inhibition of SRGAP2/SRGAP2A by SRGAP2C leads to an increase in synaptic density and protracted synaptic maturation of both excitatory and inhibitory synapses (PubMed:27373832, PubMed:34707291). Modifies cortical circuit connectivity by increasing the number of local and long-range cortical inputs received by layer 2/3 pyramidal neurons (PubMed:34707291). Also able to increase the probability of sensory-evoked responses by layer

Target Details

2/3 pyramidal neurons (PubMed:34707291). {ECO:0000269|PubMed:22559944, ECO:0000269|PubMed:27373832, ECO:0000269|PubMed:28333212, ECO:0000269|PubMed:31822692, ECO:0000269|PubMed:34707291}.

Molecular Weight: 53.5 kDa

UniProt: [P0DJJO](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. 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