

Datasheet for ABIN7554039

RASGRP1 Protein (AA 1-797) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	RASGRP1
Protein Characteristics:	AA 1-797
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RASGRP1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant RASGRP1 Protein expressed in mammalian cells.
Sequence:	<p>MGTLGKAREA PRKPSHGCR AASKARLEAKP ANSPFSPSHPS LAHITQFRMM VSLGHLAKGA SLDDLIDSCI QSFADAGNLC RSNQLLQVML TMHRIVISSA ELLQKVITLY KDALAKNSPG LCLKICYFVR YWITEFWVMF KMDASLTDTM EEFQELVKAK GEELHCRLID TTQINARDWS RKLTQRIKSN TSKKRKVSLL FDHLEPEELS EHLTYLEFKS FRRISFSDYQ NYLVNSCVKE NPTMERSIAL CNGISQWVQL MVLSRPTPQL RAEVFIKFIQ VAQKLHQLQN FNTLMAVIGG LCHSSISRLK ETSSHVPHEI NKVLGEMTEL LSSSRNYDNY RRAYGECTDF KIPILGVHLK DLISLYEAMP DYLEDGKVVN HKLLALYNHI SELVQLQEVA PPLEANKDLV HLLTSLDLY YTEDEIYELS YAREPRNHRA PPLTPSKPPV VVDWASGVSP KPDPKTISKH VQRMVDSVFK NYDHDQDGYI SQEEFEKIAA SFPFSFCVMD KDREGLISRD EITAYFMRAS SIYSKLGGLGF PHNFQETTYL KPTFCDNCAG FLWGVIKQGY RCKDCGMNCH KQCKDLVFE CKKRAKNPVA PTENNTSVGP VSNLCSLGAK DLLHAPEEGP FTFPNGEAVE HGEESKDRTI MLMGVSSQKI SLRLKRAVAH KATQTESQPW IGSEGPSGPF VLSSPRKTAQ DTLVVLPSPT SPCPSPVLVR</p>

Product Details

KRAFKVWENK DSLIKSKEEL RHLRLPTYQE LEQEINTLKA DNDALKIQLK YAQKKIESLQ

LEKSNHVLAQ MEQGDCS **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: RASGRP1

Alternative Name: RASGRP1 ([RASGRP1 Products](#))

Background: RAS guanyl-releasing protein 1 (Calcium and DAG-regulated guanine nucleotide exchange factor II) (CalDAG-GEFII) (Ras guanyl-releasing protein),FUNCTION: Functions as a calcium- and diacylglycerol (DAG)-regulated nucleotide exchange factor specifically activating Ras through the exchange of bound GDP for GTP (PubMed:15899849, PubMed:23908768, PubMed:27776107, PubMed:29155103). Activates the Erk/MAP kinase cascade (PubMed:15899849). Regulates T-cell/B-cell development, homeostasis and differentiation by coupling T-lymphocyte/B-lymphocyte antigen receptors to Ras (PubMed:10807788,

Target Details

PubMed:12839994, PubMed:27776107, PubMed:29155103). Regulates NK cell cytotoxicity and ITAM-dependent cytokine production by activation of Ras-mediated ERK and JNK pathways (PubMed:19933860). Functions in mast cell degranulation and cytokine secretion, regulating FcERI-evoked allergic responses. May also function in differentiation of other cell types (PubMed:12845332). {ECO:0000250|UniProtKB:Q9Z1S3, ECO:0000269|PubMed:10807788, ECO:0000269|PubMed:12782630, ECO:0000269|PubMed:12839994, ECO:0000269|PubMed:12845332, ECO:0000269|PubMed:15060167, ECO:0000269|PubMed:15184873, ECO:0000269|PubMed:15899849, ECO:0000269|PubMed:19933860, ECO:0000269|PubMed:23908768, ECO:0000269|PubMed:27776107, ECO:0000269|PubMed:29155103}.

Molecular Weight: 90.4 kDa

UniProt: [O95267](#)

Pathways: [TCR Signaling, Fc-epsilon Receptor Signaling Pathway](#)

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