



Recombinant Human RAS guanyl-releasing protein 1 (RASGRP1), partial

Product Code	CSB-EP019362HU-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O95267
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	<p>MGTLGKAREA PRKPSHGCRA ASKARLEAKP ANSPFSPHPS LAHITQFRMM VSLGHLAKGA SLDDLIDSCI QSFADAGNLC RSNQLLQVML TMHRIVISSA ELLQKVITLY KDALAKNSPG LCLKICYFVR YWITFEWVMF KMDASLTDTM EEFQELVKAK GEELHCRLID TTQINARDWS RKLTRIKSN TSKKRKVSLL FDHLEPEELS EHLTYLEFKS FRRISFSYQ NYLVNSCVKE NPTMERSIAL CNGISQWVQL MVLSRPTPQL RAEVFIKFIQ VAQKLHQLQN FNTLMAVIGG LCHSSISRLK ETSSHVPHEI NKVLGEMTEL LSSSRNYDNY RRAYGECTDF KIPI LGVHLK DLISLYEAMP DYLEDGKVVV HKLLALYNHI SELVQLQEVA PPLEANKDLV HLLTSLDLY YTEDEIYELS YAREPRNHRA PPLTPSKPPV VVDWASGVSP KPDPKTISKH VQRMVDSVFK NYDHDQDGYI SQEEFEKIAA SFPFSFCVMD KDREGLISRD EITAYFMRAS SIYSKLGGLGF PHNFQETTYL KPTFCDCNAG FLWGVKQGY RCKDCGMNCH KQCKDLVVFE CKKRAKNPVA PTENNTSVGP VSNLCSLGAK DLLHAPEEGP FTFPNGEAVE HGEEKDRTI MLMGVSSQKI SLRLKRAVAH KATQTESQPW IGSEGPSGPF VLSSPRKTAQ DTLYVLPST SPCPSPVLR KRAFKWENK DSLIKSKEEL RHLRLPTYQE LEQEINTLKA DNDALKIQLK YAQKKIESLQ LEKSNHVLQA MEQGDSCS</p>
Source	E.coli
Target Names	RASGRP1
Protein Names	Recommended name: RAS guanyl-releasing protein 1 Alternative name(s): Calcium and DAG-regulated guanine nucleotide exchange factor II Short name= Ca/DAG-GEFII Ras guanyl-releasing protein
Expression Region	1-797
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Partial
Target Details	This gene is a member of a family of genes characterized by the presence of a Ras superfamily guanine nucleotide exchange factor (GEF) domain. It functions as a diacylglycerol (DAG)-regulated nucleotide exchange factor specifically activating Ras through the exchange of bound GDP for GTP. It activates the Erk/MAP kinase cascade and regulates T-cells and B-cells development,



homeostasis and differentiation. Alternatively spliced transcript variants encoding different isoforms have been identified. Altered expression of the different isoforms of this protein may be a cause of susceptibility to systemic lupus erythematosus (SLE).

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.