



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

<b>Product Code</b>	CSB-EP019362HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O95267
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>MGTLGKAREA PRKPSHGCR A 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  KIPILGVHLK DLISLYEAMP DYLEDGKVVV HKLLALYNHI SELVQLQEVA  PPLEANKDLV HLLTSLDLY YTEDEIYELS YAREPRNHRA PPLTPSKPPV  VVDWASGVSP KPDPKTISKH VQRMVDSVFK NYDHDQDGYI SQEEFEKIAA  SFPFSFCVMD KDREGLISRD EITAYFMRAS SIYSKLGLGF PHNFQETTYL  KPTFCDCNAG FLWGVKQGY RCKDCGMNCH KQCKDLVVF E  CKKRAKNPVA PTENNTSVGP VSNLCSLGAK DLLHAPEEGP FTFPNGEAVE  HGEEKDRTI MLMGVSSQKI SLRLKRAVAH KATQTESQPW IGSEGPSGPF  VLSSPRKTAQ DTLVYVLPST SPCSPVLVR KRAFKWENK DSLIKSKEEL  RHLRLPTYQE LEQEINTLKA DNDALKIQLK YAQKKIESLQ LEKSNHVL AQ  MEQGDCS</p>
<b>Source</b>	E.coli
<b>Target Names</b>	RASGRP1
<b>Protein Names</b>	Recommended name: RAS guanyl-releasing protein 1 Alternative name(s): Calcium and DAG-regulated guanine nucleotide exchange factor II Short name= CalDAG-GEFII Ras guanyl-releasing protein
<b>Expression Region</b>	1-797
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Partial
<b>Target Details</b>	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).

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**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.

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**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.