



Recombinant Rat RAS guanyl-releasing protein 2 (Rasgrp2)

Product Code	CSB-EP019363RA-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P0C643
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	<p>MASTLDLDKG CTVEELLRGC IEAFDDSGKV RDPQLVRMFL MMHPWYIPSS QLASKLLHFY QQSRKDNSNS LQVKTCHLVR YWVSAFPAEF DLNPELAEQI KELKALLDQE GNRRHSSLID IESVPTYKWK RQVTQRNPVE QKKRKMSTLLF DHLEPMELAE HLTYLEYRSF CKILFQDYHS FVTHGCTVDN PVLERFISLF NSVSQWVQLM ILSKPTATQR ALVITHFVHV AEKLLQLQNF NTLMAVVGGL SHSSISRLKE THSHVSPDTI KLWEGLTELV TATGNYSNYR RRLAACVGFR FPILGVHLKD LVALQLALPD WLDPGRTRLN GAKMRQLFSI LEELAMVTSL RPPVQANPDL LSLLTVSLDQ YQTEDELYQL SLQREPRSKS SPTSPTSCTP PPRPPVLEEW TSVAKPKLDQ ALVAEHIEKM VESVFRNFDV DGDGHISQEE FQIIRGNFPY LSAFGDLQDN QDGCISREEM ISYFLRSSSV LGGRMGFVHN LQESNSLRPV ACRHCKALIL GIYKQGLKCR ACGVNCHKQC KDRLSVECR RAQSVSLEGS APSPSPHTH HRAFSFSLPR PGRSSSRPPE IREEEVQTV DGVFDIHL</p>
Source	E.coli
Target Names	Rasgrp2
Protein Names	Recommended name: RAS guanyl-releasing protein 2 Alternative name(s): Calcium and DAG-regulated guanine nucleotide exchange factor I Short name= CalDAG-GEFI
Expression Region	1-608
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	Full length protein
Target Details	This protein is a brain-enriched nucleotide exchanged factor that contains an N-terminal GEF domain, 2 tandem repeats of EF-hand calcium-binding motifs, and a C-terminal diacylglycerol/phorbol ester-binding domain. This protein can activate small GTPases, including RAS and RAP1/RAS3. The nucleotide exchange activity of this protein can be stimulated by calcium and diacylglycerol. Three alternatively spliced transcript variants encoding the same protein have been found for this gene.
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.