



# Recombinant Rat RAS guanyl-releasing protein 4 (Rasgrp4)

|                          |   |
|--------------------------|---|
| <b>Product Code</b>      | CSB-YP848140RA  |
| <b>Abbreviation</b>      | Rasgrp4   |
| <b>Storage</b>           | 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.   |
| <b>Uniprot No.</b>       | Q8R5I4  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Rattus norvegicus (Rat)   |
| <b>Purity</b>            | >85% (SDS-PAGE)   |
| <b>Sequence</b>          | MNRKDIKRKS HQECSGKAGG HGRPRQARRH KTCPTPREIS KVMASLNLGV<br>LSESSCSVDE LLEECIRCFD SAGSLHRGDH ILKMVLTMHS WVLPSDDLAA<br>RLLTSYQKAA KDARELRQLQ ICYLVRYWLT HHPEVVHQEP QLEAIINRFW<br>TTVAQEGNMA QRSLGDASN LSPGGPGPPP LMSSPGLGKK RKVSLLDHDL<br>ETEELAQLT YLEFRSFQAI TPQDLRGYVL QGSVRGCPAL EGSVGLSNSV<br>SRWVQVMVLS RGPQAQRAQV LDKFIRVAQR LRQMNFNTL<br>MAVTGGLCHS AISRLKDSHV HSPDSTKAL LELTELLSSH NNYAYYRRTW<br>ASCTDFRLPV LGVHLKDLVS LYEHPDRLP DGRHLHLPKLN SLYLRLQELA<br>ALQRQHPPCS ANEDLLHLLT LSLDLFYTED EIELSYARE PRCPKSLPLS<br>PFKAPVVVEW AHGVTPKPDS ATLGQHVEQL VESVFKNYDP EGHGSISLED<br>FEKLSANFPF ACHGLHPPPR HGSGSFSREE LTKYLLHASA ICSKLGLAFL<br>HAFQEVTFRK PTFCHSCNGF VSTGPLWGVT KRGYRCQDCG<br>LCCHRHCRDQ VRVECKKRPE TKGDPGPPGA PGPATPLPPT GCGSEEGLSY<br>TLSPHLESGC HLHHAWTQTE SSHSSWEPEM VPCPAPVLPS KASSKSSV |
| <b>Source</b>            | Yeast   |
| <b>Target Names</b>      | Rasgrp4   |
| <b>Protein Names</b>     | Recommended name: RAS guanyl-releasing protein 4  |
| <b>Expression Region</b> | 1-678   |
| <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>    | full length protein   |
| <b>Target Details</b>    | This protein is a member of the Ras guanyl nucleotide-releasing protein (RasGRP) family of Ras guanine nucleotide exchange factors. It contains a Ras exchange motif, a diacylglycerol-binding domain, and two calcium-binding EF hands. This protein was shown to activate H-Ras in a cation-dependent manner in vitro. Expression of this protein in myeloid cell lines was found to be   |



correlated with elevated level of activated RAS protein, and the RAS activation can be greatly enhanced by phorbol ester treatment, which suggested a role of this protein in diacylglycerol regulated cell signaling pathways. Studies of a mast cell leukemia cell line expressing substantial amounts of abnormal transcripts of this gene indicated that this gene may play an important role in the final stages of mast cell development. Multiple transcript variants encoding different isoforms 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.