



# Recombinant Rat GDNF family receptor alpha-1 (Gfra1)

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| <b>Product Code</b>      | CSB-BP717294RA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Abbreviation</b>      | Gfra1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>           | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br>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>       | Q62997                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Product Type</b>      | Recombinant Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Immunogen Species</b> | Rattus norvegicus (Rat)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>            | ≥85% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Sequence</b>          | <p> DRLDCV KASDQCLKEQ SCSTKYRTL R QCVAGKETNF SLTSGLEAKD<br/> ECRSAMEALK QKSLYNCRCK RGMKKEKNCL RIYWSMYQSL QGNDLLEDSP<br/> YEPVNSRLSD IFRAVPFISD VFQQVEHISK GNNCLDAAKA CNLDDTCKKY<br/> RSAYITPCTT SMSNEVCNRR KCHKALRQFF DKVPAKHSYG MLFCSCRDIA<br/> CTERRRQTIV PVCSYEERER PNCLSLQDSC KTNVICRSRL ADFFTNCQPE<br/> SRSVSNCLKE NYADCLLAYS GLIGTVMTPN YVDSSSLSVA PWCDCSNSGN<br/> DLEDCLKFLN FFKDNTCLKN AIQAFGNGSD VTMWQPAPPV QTTTATTTTA<br/> FRVKNKPLGP AGSENEIPTH VLPPCANLQA QKLKSNVSGS THLCLSDSDF<br/> GKDGLAGASS </p>                                                            |
| <b>Source</b>            | Baculovirus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Target Names</b>      | Gfra1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Names</b>     | <p>Recommended name: GDNF family receptor alpha-1 Short name= GDNF receptor alpha-1 Short name= GDNFR-alpha-1 Short name= GFR-alpha-1</p> <p>Alternative name(s): RET ligand 1 TGF-beta-related neurotrophic factor receptor 1</p>                                                                                                                                                                                                                                                                                                                                          |
| <b>Expression Region</b> | 25-430                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <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 of Mature Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Target Details</b>    | <p>Glial cell line-derived neurotrophic factor (GDNF) and neurturin (NTN) are two structurally related, potent neurotrophic factors that play key roles in the control of neuron survival and differentiation. This protein is a member of the GDNF receptor family. It is a glycosylphosphatidylinositol(GPI)-linked cell surface receptor for both GDNF and NTN, and mediates activation of the RET tyrosine kinase receptor. This gene is a candidate gene for Hirschsprung disease. Multiple alternatively spliced transcript variants have been described for this</p> |



gene.

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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.