



# Recombinant Human GDNF family receptor alpha-1 (GFRA1)

<b>Product Code</b>	CSB-EP009379HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P56159
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>DRLDCV KASDQCLKEQ SCSTKYRTL R QCVAGKETNF SLASGLEAKD            ECRSAMEALK QKSLYNCRCK RGMKKEKNCL RIYWSMYQSL QGNDLLEDSP            YEPVNSRLSD IFRVVPFISD VFQQVEHIPK GNNCLDAAKA CNLDDICKKY            RSAYITPCTT SVSNDVCNRR KCHKALRQFF DKVPAKHSYG MLFCSCRDIA            CTERRRQTIV PVCSYEEREK PNCLNLQDSC KTNVICRSRL ADFFTNCQPE            SRSVSSCLKE NYADCLLAYS GLIGTVMTPN YIDSSLSVA PWDCSNSGN            DLEECLKFLN FFKDNTCLKN AIQAFNGSD VTVWQPAFPV QTTTATTTTA            LRVKNKPLGP AGSENEIPTH VLPPCANLQA QKLKSNVSGN THLCISNGNY            EKEGLGASS</p>
<b>Source</b>	E.coli
<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            Alternative name(s): RET ligand 1 TGF-beta-related neurotrophic factor receptor 1</p>
<b>Expression Region</b>	25-429
<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 gene.</p>
<b>Reconstitution</b>	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.