

Recombinant human GDNF family receptor alpha 1 protein, Fc tagged

Cat. No. GFRA1-09H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GFR alpha-1 (25-424aa), fused to hIgG-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
ProteinLength	25-424aa
Description	This gene encodes a member of the glial cell line-derived neurotrophic factor receptor (GDNFR) family of proteins. The encoded preproprotein is proteolytically processed to generate the mature receptor. 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 receptor 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. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed.
Tag	C-Fc
Form	Liquid

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Bio-activity	Measured by its binding ability in a functional ELISA with Human GDNF. The ED50 range ≤ 50 ng/mL.
Molecular Mass	70.8 kDa
AA Sequence	DRLCDVKASDQCLKEQSCSTKYRTLRLQCVAGKETNFSLASGLEAKDECRSAMEALK QKSLYNCRCKRGMKKEKNCLRIYWSMYQSLQGNDLLEDSPYEPVNSRLSDIFRVVP FISVEHIPKGNNCLDAAKACNLDDICKKYRSAYITPCTTSVSNVNCNRRKCHKALRQF FDKVPAKHSYGMLFCSCRDIACTERRRQTIVPVCSYEEREKPNCLNLQDSCKTNYIC RSRLADFFTNCQPESRSVSSCLKENYADCLLAYSGLIGTVMTPNYIDSSSLSVAPWC DCSNSGNDLEECLKFLNFFKDNTCLKNAIQAFGNGSDVTWQPAFPVQTTTATTTT ALRVKNKPLGPAGSENEIPTHVLPPCANLQAQKLKSNVSGNTHLCISNGNYEKEGLG ASS
Endotoxin	< 1 EU/ μ g of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Concentration	0.5 mg/mL (determined by absorbance at 280nm)

References

1. Thompson, J. et al. (1998) Mol. Cell Neurosci. 11:117-126.
2. Baloh, R.H. et al. (1998) Proc. Natl. Acad. Sci. USA 95:5801-5806.
3. Jing S, et al. (1996). Cell. 85:1113-1124.
4. Treanor JJ, et al. (1996). 382: 80-83.
5. Jing S, et al. (1997). J Biol Chem. 272: 33111-33117.

GENE INFORMATION

Gene Name [GFRA1 GDNF family receptor alpha 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [GFRA1](#)

Synonyms

GFRA1; GDNF family receptor alpha 1; GDNFR; RET1L; RETL1; RHDA4; TRNR1; GDNFRA; GFRalpha-1; GFR-ALPHA-1; GDNFR-alpha-1; GDNF family receptor alpha-1; GDNF receptor alpha 1d; GDNF receptor alpha 1e; GPI-linked anchor protein; Glial cell line-derived neurotrophic factor receptor alpha; PI-linked cell-surface accessory protein; RET ligand 1; TGF-beta-related neurotrophic factor receptor 1

Gene ID [2674](#)

mRNA Refseq [NM_145793](#)

Protein Refseq [NP_665736](#)

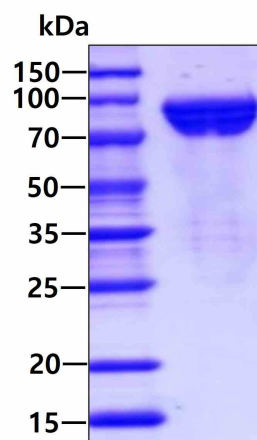
MIM [601496](#)

UniProt ID [P56159](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SDS-PAGE

3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA