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**Product Data Sheet**


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Product Name: GFRA1 Rat  
 Cat. No.: GP20301  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	GDNF family receptor alpha-1; GDNF receptor alpha-1; GDNFR-alpha-1; GFR-alpha-1; RET ligand 1; TGF-beta-related neurotrophic factor receptor 1; Gfra1; Gdnfra; Retl1; Trnr1.		
Amino Acid Sequence	<p>DRLDCVKASD QCLKEQSCST KYRTLRLQCVA GKETNFSLTS GLEAKDECRES          AMEALKQKSL YNCRCKRGMK KEKNCLRIYW SMYQSLOGND LLEDSPYEPV          NSRLSDIFRA VPFISDVFQQ VEHISKGNNC LDAAKACNLD DTCKKYRSAY          ITPCTTSMNS EVCNRRKCHK ALRQFFDKVP AKHSYGMLFC SCRDIACTER          RRQTIVPVCS YEERERPNC LSLQDSCKTNY ICRSRLADFF TNCQPESRSV          SNCLKENYAD CLLAYSGLIG TVMTPNYVDS SLSVAPWCD CSNSGNDLED          CLKFLNFFKD NTCLKNAIQA FGNGSDVTMW QPAPPVQTTT ATTTAFRVK          NKPLGPAGSE NEIPTHVLP CANLQAQKLK SNVSGSTHLC LSDSDFGKDG          LAGASSLEPK SCDKTHTCPP CPAPELLGGP SVFLFPPKPK DTLMISRTPE          VTCVVVDVSH EDPEVKFNWY VDGVEVHNAK TKPREEQYNS TYRVVSVLTV          LHQDWLNGKE YKCKVSNKAL PAPIEKTISK AKGQPREPQV YTLPPSRDEL          TKNQVSLTCL VKGFYPSDIA VEWESNGQPE NNYKTTTPVL DSDGSFFLYS          KLTVDKSRWQ QGNVFSCSVM HEALHNHYTQ KLSLSLSPGKH HHHHH.</p>		
Formulation	GFRA1 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

**Introduction**

GDNF family receptor alpha-1 (GFRA1) belongs to the GDNF receptor family. GFRA1 is a glycosyl-phosphatidylinositol(GPI)-linked cell surface receptor for both Glial cell line-derived growth factor (GDNF), neurturin (NTN), and mediates activation of the RET tyrosine kinase receptor. The GFRA1 protein is a potent survival factor for central and peripheral neurons, and is vital for the development of kidneys and the enteric nervous

**Caution: Product has not been fully validated for medical applications. For research use only.**

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system.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

GFRA1 Rat Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 645 amino acids (25-430a.a.) and having a molecular mass of 72.3kDa (Molecular size on SDS-PAGE will appear at approximately 70-100kDa). GFRA1 is expressed with a 239 amino acid hIgG-His tag at C-Terminus and purified by proprietary chromatographic techniques.

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