
Product Data Sheet

Product Name: GFRA1 Human
 Cat. No.: GP20300
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK293 cells.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	GDNF receptor alpha-1; GDNFR-alpha-1; GFRalpha-1; RET ligand 1; TGF-beta-related neurotrophic factor receptor 1; GDNFRA1; RET1L2; RETL1; Glial Cell LineDerived Neurotrophic Factor Receptor Alpha; TRNR1; GPILinked Anchor Protein; PI-Linked Cell-Surface.		
Amino Acid Sequence	DRLDCVKASD QCLKEQSCST KYRTLRCQVA GKETNFSLAS GLEAKDECERS AMEALKQKSL YNCRCKRGMK KEKNCLRIYW SMYQSLQGND LLEDSPYEPV NSRLSDIFRV VPFISVEHIP KGNNCLDAAK ACNLDDICKK YRSAYITPCT TSVSNDVCNR RKCHKALRQF FDKVPAKHSY GMLFCSCRDI ACTERRRQTI VPVCSYEERE KPNCLNLQDS CKTNYICRSR LADFFTNCQP ESRSVSSCLK ENYADCLLAY SGLIGTVMTP NYIDSSSLSV APWCDCSNSG NDLEECLKFL NFFKDNTCLK NAIQAFGNGS DVTWVQPAFP VQTTTATTTT ALRVKNKPLG PAGSENEIPT HVLPPCANLQ AQKLKSNVSG NTHLCISNGN YEKEGLGAS H HHHHHHHHHH.		
Solubility	It is recommended to add 200µl deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. GFRA1 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	GFRA1 filtered (0.4 µm) and lyophilized from 0.5mg/ml in phosphate buffered saline pH 7.5 containing 5 % (w/v) trehalose.		

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

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

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peripheral neurons, and is vital for the development of kidneys and the enteric nervous system.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

GFRA1 Human Recombinant produced in HEK293 cells is a single, glycosylated polypeptide chain (a.a 25-423) containing 409 amino acids including a 10 a.a C-terminal His tag. The total molecular mass is 46.0kDa (calculated).

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