

GFR alpha-1 Active Protein | GFRalpha-1 active protein

Recombinant human GFR alpha-1 protein

CATALOG # AAA49003	HOST HEK293	APPLICATIONS SDS-Page
------------------------------	-----------------------	---------------------------------

PRODUCT SYNONYMS

GFR alpha-1; Recombinant human GFR alpha-1 protein; GDNF family receptor alpha-1 isoform b; GDNF receptor alpha-1; GDNF R alpha-1; GFR alpha1; GFR-ALPHA-1; GFRa-1; GFRalpha-1; GFRA1; GDNFR; GDNFRA; RET1L; RETL1; TRNR1; RHDA4; RET ligand; TGF-beta-related neurotrophic factor receptor 1; GFRalpha-1 active protein

PRODUCT SPECIFICATIONS

Host	HEK293
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid in. Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	0.5 mg/ml (determined by absorbance at 280nm) (varies by lot)
Sequence Positions	25-424aa
Sequence	Asp25 D RLDCVKASDQ CLKEQSCSTK YRTLRCQVAG KETNFSLASG LEAKDECRA MEALKQKSLY NCRCKRGMKK EKNCLRIYWS MYQSLQGNDL LEDSPYEPVN SRLSDIFRVV PFISVEHIPK GNNCLDAAKA CNLDDICKKY RSAYITPCTT SVSNDVCNRR KCHKALRQFF DKVPAKHSYG MLFCSCRDIA CTERRRQTIV PVCSYEEREK PNCLNLQDSC KTNICYRSL ADFFTNCQPE SRSVSSCLKE NYADCLLAYS GLIGVTMTPN YIDSSSLVA PWDCSNSGN DLEECLKFLN FFKDNTCLKN AIQAFNGSD VTVWQPAFPV QTTTATTTA LRVKNKPLGP AGSENEIPTH VLPPCANLQA QKLKSNVSGN THLCISNGNY EKEGLGASS< LEPKSCDKTH TCPPCPAPEL LGGPSVFLFP PKPKDTLMIS RTPEVTCVVV DVSHEDPEVK FNWYVDGVEV HNAKTKPREE QYNSTYRVVS VLTVLHQDWL NGKEYKCKVS NKALPAPIEK TISKAKGQPR EPQVYTLPPS RDELTKNQVS LTCLVKGFYP SDIAVEWESN GQPENNYKTT PPVLDSGDSF FLYSKLTVDK SRWQQGNVFS CSVMHEALHN HYTKQSLSLS PGK>
Applicable Applications for GFRalpha-1 active protein	Bioactivity, SDS-PAGE
Species	Human
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Tag	hIgG-Tag
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

ADDITIONAL INFORMATION

Related Product Information for GFRalpha-1 active protein	GFR alpha-1, also known as GDNF family receptor alpha-1, belongs to the GDNFR family. It is a glycosylphosphatidylinositol (GPI)-linked receptor found on the cell surface, acting as a receptor for both GDNF and NTN and function as neurotrophic factors for a variety of neuronal populations in the central and peripheral nervous systems. It bind GDNF strongly and activate RET tyrosine kinase and is also essential for the development of kidneys and the enteric nervous system. Recombinant human GFR alpha-1, fused to hIgG-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Product Categories/Family for GFRalpha-1 active protein	Neuroscience; Proteins

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

NCBI AND UNIPROT INFORMATION

NCBI GI #	22035692
NCBI GeneID	2674
NCBI Accession #	NP_665736.1
NCBI GenBank Nucleotide #	NM_145793.3
UniProt Accession #	P56159; O15507; O43912; A8KA21
Molecular Weight	51,456 Da
NCBI Official Full Name	GNDF family receptor alpha-1 isoform b preproprotein
NCBI Official Synonym Full Names	GNDF family receptor alpha 1
NCBI Official Symbol	GFRA1
NCBI Official Synonym Symbols	GNDFR; RET1L; RETL1; TRNR1; GDNFRA; GFR-ALPHA-1
NCBI Protein Information	GNDF family receptor alpha-1; RET ligand 1; GDNFR-alpha-1; GDNF receptor alpha-1; GPI-linked anchor protein; PI-linked cell-surface accessory protein; TGF-beta related neurotrophic factor receptor 1; TGF-beta-related neurotrophic factor receptor 1; Glial
UniProt Protein Name	GNDF family receptor alpha-1
UniProt Gene Name	GFRA1
UniProt Synonym Gene Names	GDNFRA; RETL1; TRNR1; GDNF receptor alpha-1; GDNFR-alpha-1; GFR-alpha-1
UniProt Entry Name	GFRA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.