GDNF Family Receptor Alpha-2 (GFRA2) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	GDNF family receptor alpha-2 (GFRA2), Recombinant Protein
Full Product Name	Recombinant Human GDNF family receptor alpha-2 (GFRA2)
Product Gene Name	GFRA2 recombinant protein
Sequence	SPSSLQGPEL HGWRPPVDCV RANELCAAES NCSSRYRTLR QCLAGRDRNT MLANKECQAA LEVLQESPLY DCRCKRGMKK ELQCLQIYWS IHLGLTEGEE FYEASPYEPV TSRLSDIFRL ASIFSGTGAD PVVSAKSNHC LDAAKACNLN DNCKKLRSSY ISICNREISP TERCNRRKCH KALRQFFDRV PSEYTYRMLF CSCQDQACAE RRRQTILPSC SYEDKEKPNC LDLRGVCRTD HLCRSRLADF HANCRASYQT VTSCPADNYQ ACLGSYAGMI GFDMTPNYVD SSPTGIVVSP WCSCRGSGNM EEECEKFLRD FTENPCLRNA IQAFGNGTDV NVSPKGPSFQ ATQAPRVEKT PSLPDDLSDS TSLGTSVITT CTSVQEQGLK ANNSKELSMC FTELTTNIIP GSNKVIKPNS GPS
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	39,649 Da
Sequence Positions	22-444, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	601956
3D Structure	ModBase 3D Structure for O00451
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GFRA2 recombinant protein	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 encoded protein acts preferentially as a receptor for NTN compared to its other family member, GDNF family receptor alpha 1. This gene is a candidate gene for RET-associated diseases. Multiple transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of GFRA2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GFRA2 purchase	MBS1227035 is a recombinant protein targeting GFRA2. Also known as Recombinant Human GDNF family receptor alpha-2 (GFRA2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GFRA2. It may not necessarily be applicable to this product.

NCBI GI #	259089450
NCBI GeneID	2675
NCBI Accession #	NP_001158510.1
UniProt Primary Accession #	O00451
UniProt Secondary Accession #	O15316; O15328; Q58J92; Q6GTR9; Q7Z5C2; E9PD47
UniProt Related Accession #	O00451
GenBank Nucleotide #	NM_001165038.1
NCBI Official Full Name	GDNF family receptor alpha-2 isoform b
NCBI Official Synonym Full Names	GDNF family receptor alpha 2
NCBI Official Symbol	GFRA2
NCBI Official Synonym Symbols	NTNRA; RETL2; TRNR2; GDNFRB; NRTNR-ALPHA
UniProt Protein Name	GDNF family receptor alpha-2
UniProt Synonym Protein Names	GDNF receptor beta; GDNFR-beta; Neurturin receptor alpha; NRTNR-alpha; NTNR-alpha; RET ligand 2; TGF-beta-related neurotrophic factor receptor 2
Protein Family	GDNF family receptor
UniProt Gene Name	GFRA2
UniProt Synonym Gene Names	GDNFRB; RETL2; TRNR2; GDNF receptor alpha-2; GDNFR-alpha-2; GFR-alpha-2; GDNFR-beta; NRTNR-alpha; NTNR-alpha
NCBI Protein Information	GDNF family receptor alpha-2
NCBI Summary for GFRA2	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. The protein encoded by this gene 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 encoded protein acts preferentially as a receptor for NTN compared to its other family member, GDNF family receptor alpha 1. This gene is a candidate gene for RET-associated diseases. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]
UniProt Comments for GFRA2	Receptor for neurturin. Mediates the NRTN-induced autophosphorylation and activation of the RET receptor. Also able to mediate GDNF signaling through the RET tyrosine kinase receptor.Isoform 2: participates in NRTN-induced 'Ser-727' phosphorylation of STAT3.
Research Articles on GFRA2	**1.** The cardiac GFRA2 signaling pathway is distinct from the canonical pathway dependent on the RET tyrosine kinase.
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