

Recombinant Human GFRA1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GFRA1-1312H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GFRA1 MS Standard C13 and N15-labeled recombinant protein (NP_001138925) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	50.84 kDa
AA Sequence	MFLATLYFALPLDLLLSAEVSGGDRLCDVKASDQCLKEQSCSTKYRTLRLQCVAGKE TNFSLASGLEAKDECRSAMEALKQKSLYNCRCKRGMKKEKNCLRIYWSMYQSLQG NDLLEDSPYEPVNSRLSDIFRVVPFISVEHIPKGNNCLDAAKACNLDDICKKYRSAYIT

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PCTTSVSNDVCNRRKCHKALRQFFDKVPAKHSYGMLFCSCRDIACERRRRQTIVPV
 CSYEEREKPNCLNLQDSCKTNYICRSRLADFFTNCQPESRSVSSCLKENYADCLLAY
 SGLIGTVMTPNYIDSSSLSVAPWCDCSNSGNDLEECLKFLNFFKDNTCLKNAIQAFG
 NGSDVTWVQPAFPVQTTTATTTALRVKNKPLGPAGSENEIPTHVLPCCANLQAQKL
 KSNVSGNTHLCISNGNYEKEGLGASSHITTKSMAAPPSCGLSPLLVLVVTALSTLLSL
 TETSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

Official Symbol GFRA1

Synonyms GFRA1; GDNF family receptor alpha 1; GDNFRA; GDNF family receptor alpha-1; GDNFR; GFR ALPHA 1; RET1L; RETL1; TRNR1; 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 cell line-derived neurotrophic factor receptor alpha; GFR-ALPHA-1; FLJ10561; FLJ31546; MGC23045; DKFZp313E1012; DKFZp686J0156;

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Gene ID	2674
mRNA Refseq	NM_001145453
Protein Refseq	NP_001138925
MIM	601496
UniProt ID	P56159
SDS-PAGE	