

GFR Alpha-2/GFRA2 Protein, Human, Recombinant (hFc & His)

General Information

Synonyms:	TRNR2;GDNFR-beta;TGF- β -related neurotrophic factor receptor 2;GDNFRB;RET ligand 2; RETL2;Neurturin receptor alpha;TGF-beta-related neurotrophic factor receptor 2;GDNFR- β ; Neurturin receptor α
Protein Construction:	Ser22-Ser441
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O00451
Molecular Weight:	120 KDa (reducing condition)
AA Sequence:	Ser22-Ser441

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

GDNF family receptor alpha-2 is a glycosylphosphatidylinositol (GPI)-linked cell surface receptor. It is part of the GDNF receptor family. 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. GFRA2 mediates the NRTN-induced autophosphorylation and activation of the RET receptor. It also able to mediate GDNF signaling through the RET tyrosine kinase receptor. It acts preferentially as a receptor for NTN compared to its

other family member, GDNF family receptor alpha 1.

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