

GFRAL/GFR alpha-like Protein, Human, Recombinant (hFc)

General Information

Synonyms:	GFRAL;GRAL;C6orf144;GFR alpha-like;GFR α -like;GFRAL/GFR α -like Protein
Protein Construction:	Ser19-Glu351
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q6UXV0
Molecular Weight:	64.6 kDa (predicted). Due to glycosylation, the protein migrates to 70-80 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	<ol style="list-style-type: none">1. Immobilized Human GDF15, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Human GFRAL, hFc Tag with the EC50 of 11.5ng/ml determined by ELISA (QC Test).2. Human GFRAL, hFc Tag captured on CM5 Chip via Protein A can bind Human GDF15, His Tag with an affinity constant of 0.014 nM as determined in SPR assay.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

GFR alpha-like (GDNF receptor-alpha-like) is a distant member of the GDNFR family of proteins. Mature human GFR alpha-like is a 376 amino acid (aa) type I transmembrane protein. It contains a 333 aa extracellular domain, a 20 aa transmembrane domain and a 23 aa cytoplasmic domain. GFRAL is a brainstem-restricted receptor for

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GDF15 which regulates food intake, energy expenditure and body weight in response to metabolic and toxin-induced stresses.

Reference

Mullican S E, et al. GFRAL is the receptor for GDF15 and the ligand promotes weight loss in mice and nonhuman primates[J]. Nature Medicine, 2017, 23(10):1150-1157.

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