

## GFRAL/GFR alpha-like Protein, Mouse, Recombinant (His & Avi), Biotinylated

### General Information

Synonyms:	GRAL;GFRAL/GFR α-like Protein;GFR alpha-like;GFR α-like;GFRAL;C6orf144
Protein Construction:	Gln20-Glu350
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q6SJE0-1
Molecular Weight:	40.1 kDa (predicted). Due to glycosylation, the protein migrates to 48-60 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Biotinylated Mouse GFRAL, His Tag at 0.5µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for Mouse GDF15, hFc Tag with the EC50 of 6.2ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1 EU/µg by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm 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 µg/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.

#### Shipping:

In general, Lyophilized powders are shipping with blue 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 GDF15 which regulates food intake, energy expenditure and body weight in response to metabolic and toxin-

induced stresses.

Reference

Yang L, et al. GFRAL is the receptor for GDF15 and is required for the anti-obesity effects of the ligand. *Nat Med.* 2017;23(10):1158-1166. doi:10.1038/nm.4394

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