

## GFRAL/GFR alpha-like Protein, Cynomolgus, Recombinant (His &amp; Avi)

## General Information

Synonyms:	GFR alpha like;GRAL;GFRAL;C6orf144;GFRAL/GFR $\alpha$ -like Protein;GFR alpha-like;GFR $\alpha$ like;GFR $\alpha$ -like
Protein Construction:	Gln20-Glu351
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	XP_015304775.2
Molecular Weight:	40.7 kDa (predicted). Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.

## QC Testing

Biological Activity:	Immobilized Cynomolgus GFRAL, His Tag at 1 $\mu$ g/ml (100 $\mu$ l/well) on the plate. Dose response curve for Cynomolgus GDF15, hFc Tag with the EC50 of 3.6ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing 20 mM PB, 0.4M NaCl (pH 6.0). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in 20mM PB, 0.4M NaCl (pH 6.0). The product concentration should not be less than 100  $\mu$ 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 &amp; 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 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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