

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

### General Information

Synonyms:	GRAL;GFRAL;C6orf144;GFRAL/GFR $\alpha$ -like Protein;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 GDF15, His Tag at 2 $\mu$ g/ml (100 $\mu$ l/well) on the plate. Dose response curve for Biotinylated Cynomolgus GFRAL, His Tag with the EC50 of 76.3ng/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:	Supplied as 0.22 $\mu$ m filtered solution in 20 mM PB, 400 mM NaCl (pH 6.0).

### Preparation and Storage

#### Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped 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

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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