

# Mouse GFRAL/GFR alpha-like Protein

Cat. No. GFL-MM101

## Description

<b>Source</b>	Recombinant Mouse GFRAL/GFR alpha-like Protein is expressed from HEK293 with His tag at the N-terminus. It contains Gln20-Glu350.
<b>Accession</b>	Q6SJE0-1
<b>Molecular Weight</b>	The protein has a predicted MW of 38.3 kDa. Due to glycosylation, the protein migrates to 47-60 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.1 EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

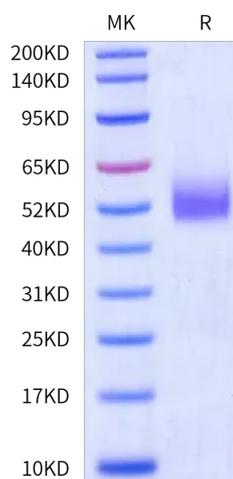
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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.

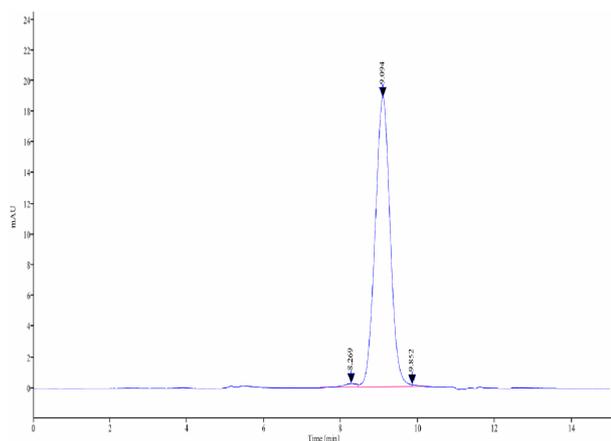
## Assay Data

### Bis-Tris PAGE



Mouse GFRAL on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



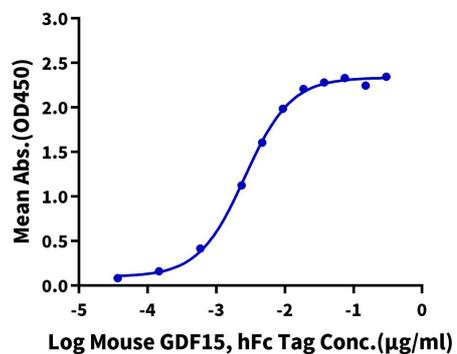
The purity of Mouse GFRAL is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Mouse GFRAL, His Tag ELISA**

0.2µg Mouse GFRAL, His Tag Per Well



Immobilized Mouse GFRAL, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Mouse GDF15, hFc Tag (Cat. GDF-MM215) with the EC50 of 2.6ng/ml determined by ELISA.