

# Human GFRAL/GFR alpha-like Protein

Cat. No. GFL-HM401

## Description

<b>Source</b>	Recombinant Human GFRAL/GFR alpha-like Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Ser19-Glu351.
<b>Accession</b>	Q6UXV0
<b>Molecular Weight</b>	The protein has a predicted MW of 40.7 kDa. Due to glycosylation, the protein migrates to 48-62 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	>95% as determined by Bis-Tris PAGE >95% as determined by HPLC

## Formulation and Storage

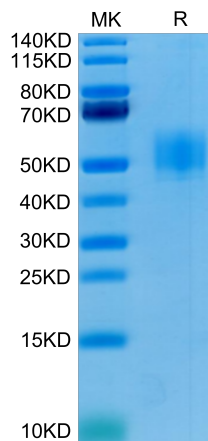
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<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.

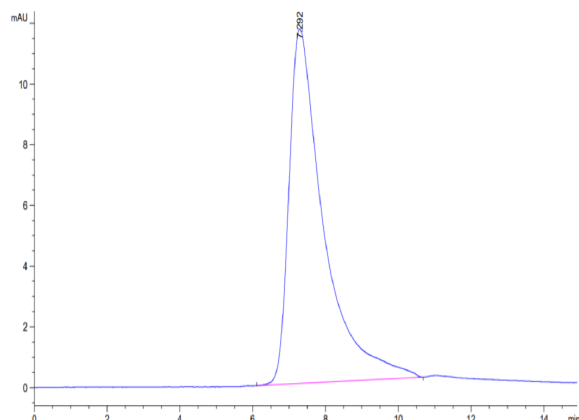
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



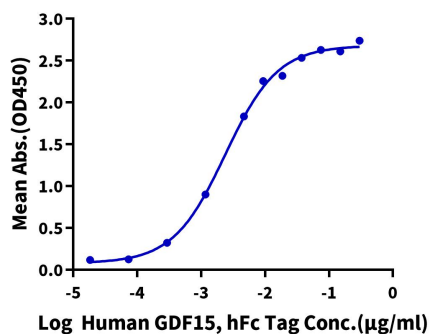
The purity of Human GFRAL is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Human GFRAL, His Tag ELISA**

0.1µg Human GFRAL, His Tag Per Well



Immobilized Human GFRAL, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Human GDF15, hFc Tag with the EC50 of 2.4 ng/ml determined by ELISA (QC Test).