

Datasheet for ABIN7274740

GFRAL Protein (AA 20-350) (His-Avi Tag,Biotin)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	GFRAL
Protein Characteristics:	AA 20-350
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GFRAL protein is labelled with His-Avi Tag,Biotin.

Product Details

Purpose:	Biotinylated Mouse GFRAL/GFR alpha-like Protein
Sequence:	Gln20-Glu350
Characteristics:	Recombinant Biotinylated Mouse GFRAL/GFR alpha-like Protein is expressed from HEK293 with His tag and Avi tag at the N-Terminus.It contains Gln20-Glu350.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	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. See testing image for detail.

Target Details

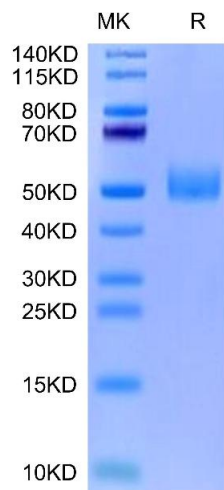
Target:	GFRAL
Alternative Name:	GFRAL (GFRAL Products)
Background:	<p>GFR alpha -like (GDNF receptor-alpha-like) is a distant member of the GDNFR family of proteins. Mature human GFR alpha-like is a 376 amino acid (aa) type I transmembrane protein. It contains a 333 aa extracellular domain, a 20 aa transmembrane 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.</p>
Molecular Weight:	40.1 kDa. Due to glycosylation, the protein migrates to 48-60 kDa based on Tris-Bis PAGE result.

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt.,-80°C for 3-6 months after reconstitution.,2-8°C for 2-7 days after reconstitution.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

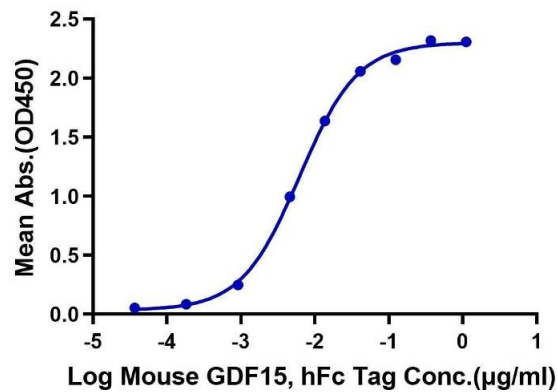


SDS-PAGE

Image 1. Biotinylated Mouse GFRAL on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

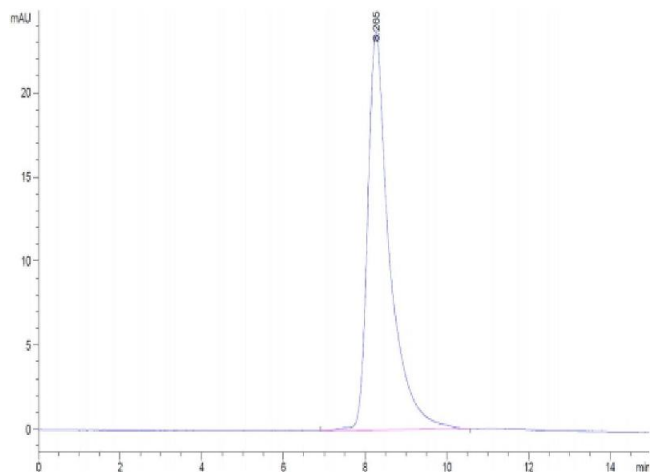
Biotinylated Mouse GFRAL, His Tag ELISA

0.05µg Biotinylated Mouse GFRAL, His Tag Per Well



ELISA

Image 2. Immobilized Biotinylated Mouse GFRAL, His Tag at 0.5 µg/mL (100 µL/Well) on streptavidin (5 µg/mL) precoated plate. Dose response curve for Mouse GDF15, hFc Tag with the EC50 of 6.2 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Biotinylated Mouse GFRAL is greater than 95 % as determined by SEC-HPLC.