

Biotinylated Recombinant Mouse GFR alpha-like/GFRAL Protein

Catalog No.: RP02212B **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	404194	Q6SJE0-1

Tags

N-His&Avi

Synonyms

GFR alpha-like; GFRAL; GRAL; C6orf144

Product Information

Source	Purification
HEK293 cells	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC

Calculated MW	Observed MW
40.1 kDa	48-60 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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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.

Basic Information

Description

Biotinylated Recombinant Mouse GFR alpha-like/GFRAL Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Gln20-Glu350) of Mouse GFR alpha-like/GFRAL fused with a His and Avi tag at the N-terminal.

Bio-Activity

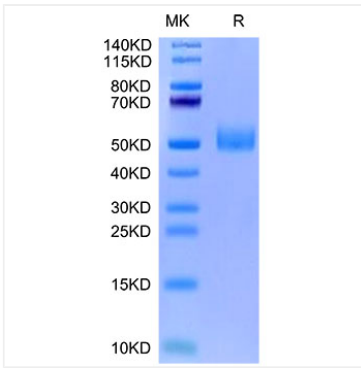
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

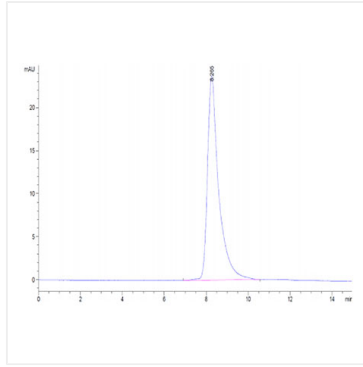
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

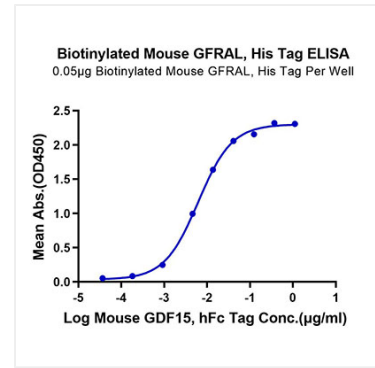
Validation Data



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



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



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 EC_{50} of 6.2ng/ml determined by ELISA.