

Biotinylated Mouse GFR alpha-like Protein, His,Avitag™ (MALs verified)

Catalog # GFA-M82E3



Synonym

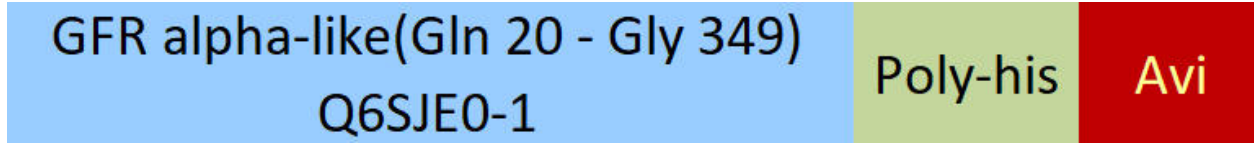
GFR alpha like, GFR alpha-like, GFRAL, GRAL

Source

Biotinylated Mouse GFR alpha-like Protein, His,Avitag (GFA-M82E3) is expressed from human 293 cells (HEK293). It contains AA Gln 20 - Gly 349 (Accession # [Q6SJE0-1](#)).

Predicted N-terminus: Gln 20

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 40.7 kDa. The protein migrates as 43-58 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

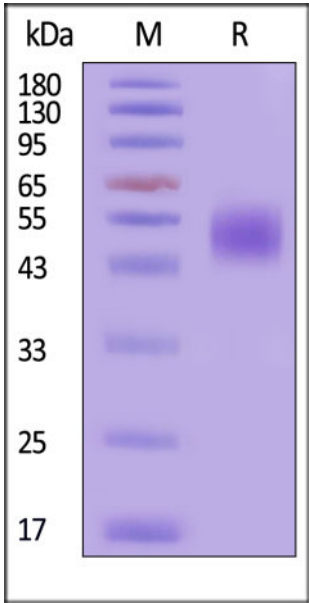
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

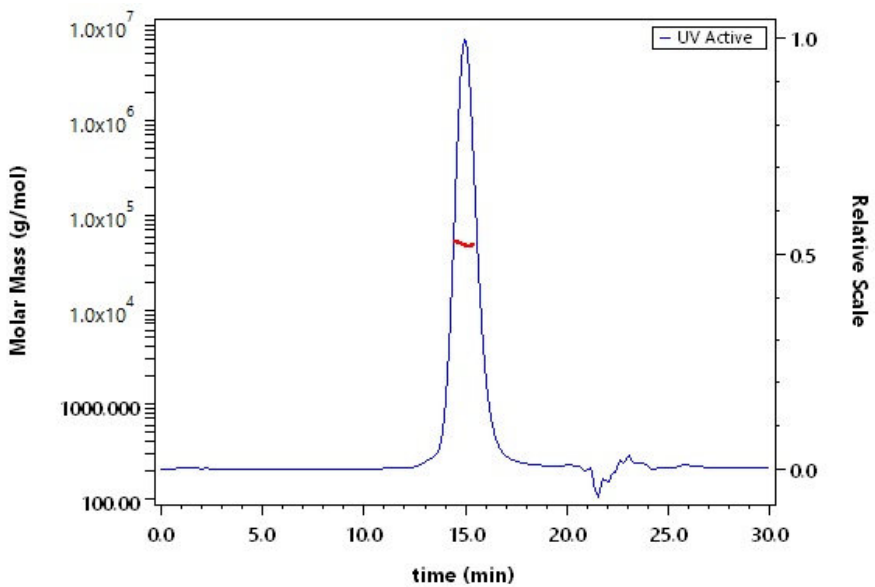
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



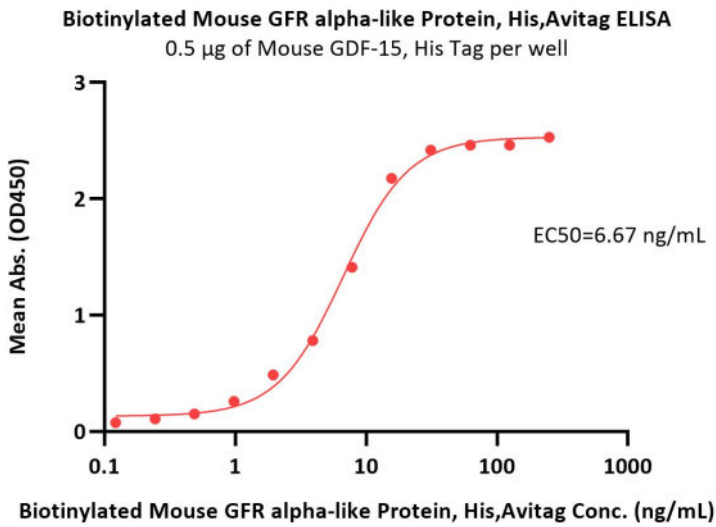
Biotinylated Mouse GFR alpha-like Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Biotinylated Mouse GFR alpha-like Protein, His,Avitag (Cat. No. GFA-M82E3) is more than 95% and the molecular weight of this protein is around 43-60 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Mouse GDF-15, His Tag (Cat. No. GD5-M5149) at 5 µg/mL (100 µL/well) can bind Biotinylated Mouse GFR alpha-like Protein, His,Avitag (Cat. No. GFA-M82E3) with a linear range of 0.6-39 ng/mL (QC tested).

Background

GFR alpha-like is also known as GDNF family receptor alpha-like, GFRAL, C6orf144, UNQ9356, PRO34128. Growth differentiation factor-15 (GDF15) is a circulating protein that has been implicated in multiple biological processes, including energy homeostasis, body weight regulation, and cachexia driven by cancer and chronic disease. GDNF family receptor α -like (GFRAL) was recently identified as the neuronal brainstem receptor responsible for mediating the anorectic actions of GDF15. Brainstem-restricted receptor for GDF15 which regulates food intake, energy expenditure and body weight in response to metabolic and toxin-induced stresses. Upon interaction with its ligand, GDF15, interacts with RET and induces cellular signaling through activation of MAPK- and AKT- signaling pathways.



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