

Recombinant Human GFR alpha-like/GFRAL Protein

Catalog No.: RP02211

Sequence Information

Species	Gene ID
Human	389400
Swiss Prot	Tags
Q6UXV0	C-His&Avi

Synonyms

GFR alpha-like, GFRAL, GRAL, C6orf144

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by Tris-Bis PAGE. ≥ 95 % as determined by HPLC.

Calculated MW Observed MW

40.7 kDa 48-62 kDa

Endotoxin

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

Formulation

Lyophilized from 0.22um filtered solution in 20mM PB, 300mM NaCl (pH 6.5). Normally 5 % trehalose is added as protectant before lyophilization.

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.

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

Recombinant Human GFR alpha-like/GFRAL Protein is produced by mammalian expression system. The target protein is expressed with sequence (Ser19-Glu351) of Human GFR alpha-like/GFRAL (Accession #) fused with a His and Avi tag at the C-terminal. .

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

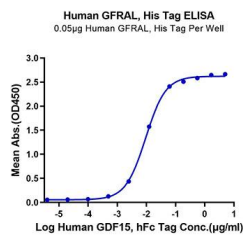
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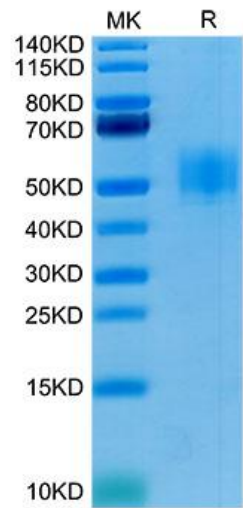
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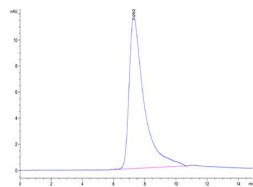
Validation Data



Immobilized Human GFRAL, His Tag at 0.5µg/ml (100µl/Well). Dose response curve for Human GDF15, hFc Tag with the EC₅₀ of 9.4ng/ml determined by ELISA.



Recombinant Human GFR alpha-like/GFRAL Protein was determined by Tris-Bis PAGE under reducing conditions.



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