Recombinant Human GFR alpha-like/GFRAL Protein

Catalog No.: RP02625

www.abclonal.com

Sequence Information

Species
Human

Gene ID
389400

Swiss Prot
Q6UXV0

Tags
C-hFc

Synonyms
GFR alpha-like; GFRAL; GRAL; C6orf144

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by Tris-Bis PAGE;≥ 95 % as determined by HPLC.

Calculated MW
64.6 kDa

Observed MW
70-80 kDa

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

Formulation

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 stablizer (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 HEK293 cells expression system. The target protein is expressed with sequence (Ser19-Glu351) of Human GFR alpha-like/GFRAL (Accession #) fused with hFc 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℃

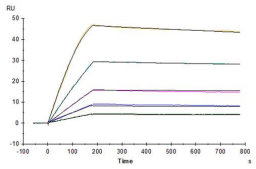
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

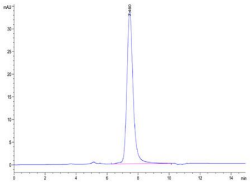
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

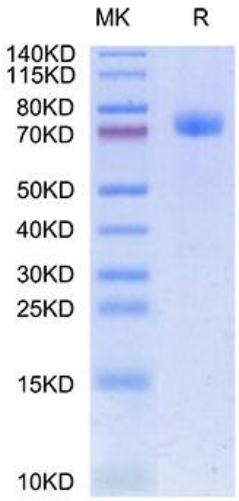
Validation Data



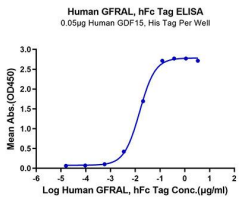
Human GFRAL, hFc Tag captured on CM5 Chip via Protein A can bind Human GDF15, His Tag with an affinity constant of 0.014 nM as determined in SPR assay (Biacore T200).



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



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



Immobilized Human GDF15, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Human GFRAL, hFc Tag with the EC_{50} of 15ng/ml determined by ELISA.