

Human GFRAL/GFR alpha-like Protein



Cat. No. GFL-HM401

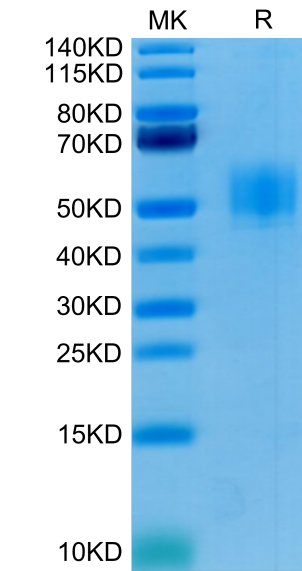
Description	
Source	Recombinant Human GFRAL/GFR alpha-like Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Ser19-Glu351.
Accession	Q6UXV0
Molecular Weight	The protein has a predicted MW of 40.7 kDa. Due to glycosylation, the protein migrates to 48-62 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4).Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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.	

Assay Data

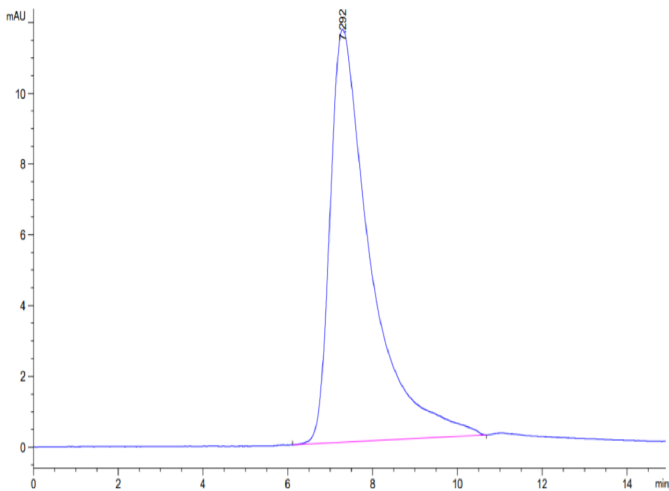
Bis-Tris PAGE



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

SEC-HPLC

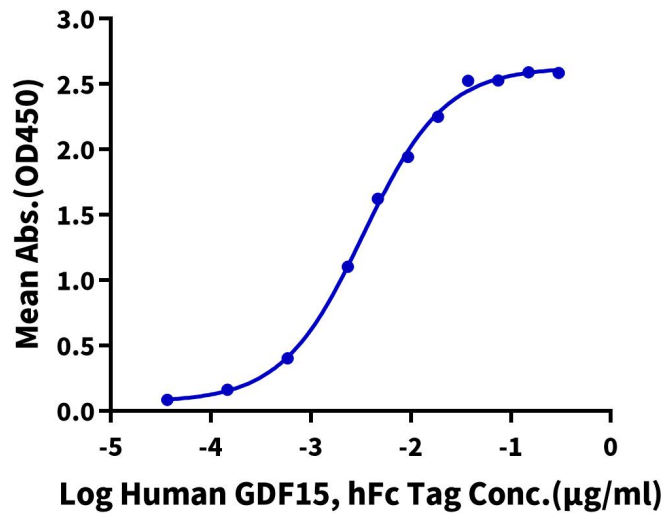
Assay Data



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

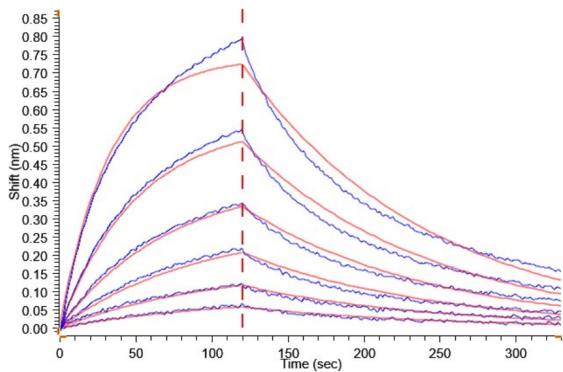
ELISA Data

Human GFRAL, His Tag ELISA
0.1µg Human GFRAL, His Tag Per Well



Immobilized Human GFRAL, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Human GDF15, hFc Tag with the EC50 of 3.3 ng/ml determined by ELISA.

BLI Data



Loaded Human GDF15, hFc Tag on ProA-Biosensor can bind Human GFRAL, His-Avi Tag with an affinity constant of 35.50 nM as determined in BLI assay (Gator® Prime).