Human GFRAL/GFR alpha-like Protein

Cat. No. GFL-HM201

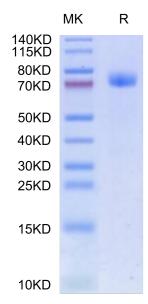


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Description	
Source	Recombinant Human GFRAL/GFR alpha-like Protein is expressed from HEK293 with hFc tag at the C-Terminus.
	It contains Ser19-Glu351.
Accession	Q6UXV0
Molecular Weight	The protein has a predicted MW of 64.6 kDa. Due to glycosylation, the protein migrates to 70-80 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU 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 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°C for 3 months after reconstitution. 2-8°C for 2-7 days 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

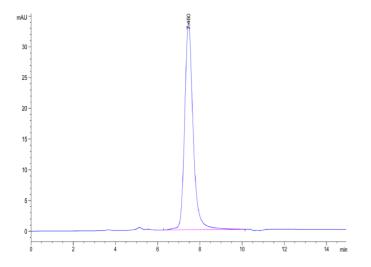


Human GFRAL on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

KAGTUS

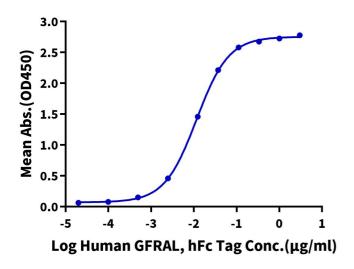
Assay Data



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

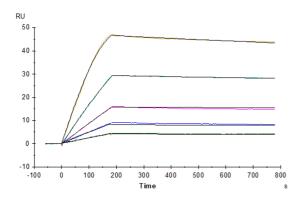
ELISA Data

Human GFRAL, hFc Tag ELISA 0.05μg Human GDF15, His Tag Per Well



Immobilized Human GDF15, His Tag at 0.5μ g/ml (100 μ l/well) on the plate. Dose response curve for Human GFRAL, hFc Tag with the EC50 of 11.5ng/ml determined by ELISA (QC Test).

SPR 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).