

Human FGF21 Protein

Cat. No. FGF-HM221



Description	
Source	Recombinant Human FGF21 Protein is expressed from HEK293 with hFc (IgG1) tag at the N-terminus. It contains His29-Ser209.
Accession	Q9NSA1
Molecular Weight	The protein has a predicted MW of 45.35 kDa. Due to glycosylation, the protein migrates to 52-65 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

Fibroblast growth factor 21 (FGF21) is a peptide hormone that is synthesized by several organs and regulates energy homeostasis. Excitement surrounding this relatively recently identified hormone is based on the documented metabolic beneficial effects of FGF21, which include weight loss and improved glycemia.

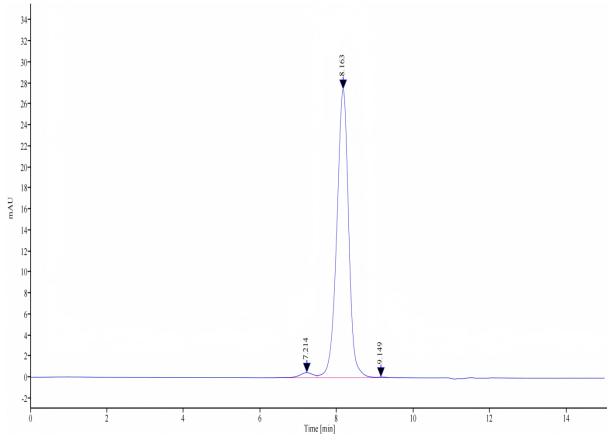
Assay Data

Bis-Tris PAGE



Human FGF21 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human FGF21 is greater than 95% as determined by SEC-HPLC.

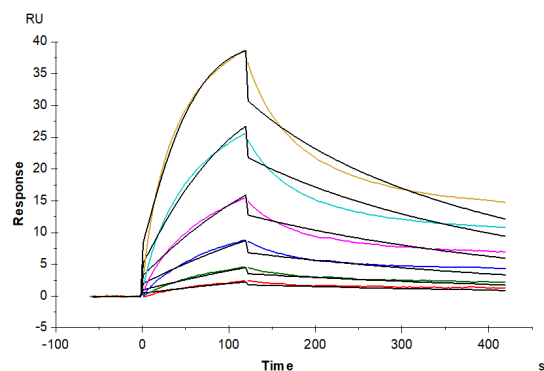
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Assay Data

SPR Data



Human FGF21, hFc Tag captured on CM5 Chip via ProteinA can bind Human Beta Klotho, His Tag with an affinity constant of 7.49 nM as determined in SPR assay (Biacore T200).