

Human GDF15 Protein, Ultra Low Endotoxin



Cat. No. GDF-HM215-UL

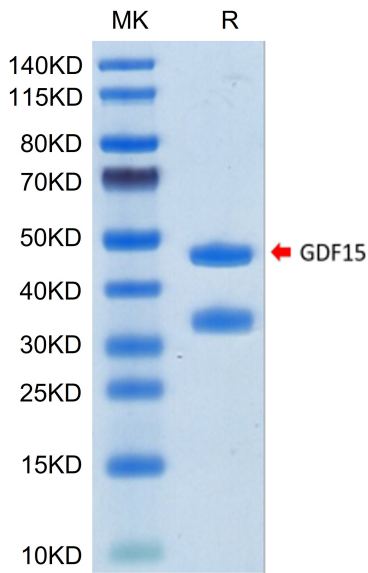
Description	
Source	Recombinant Human GDF15 Protein is expressed from HEK293 with hFc tag at the N-Terminus. It contains Ala197-Ile308.
Accession	Q99988
Molecular Weight	The protein has a predicted MW of 37.9 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 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	
Growth and differentiation factor 15 (GDF15) is an inflammation-associated hormone with poorly defined biology. Here, we investigated the role of GDF15 in bacterial and viral infections. Inflammation induced GDF15, and that GDF15 was necessary for surviving both bacterial and viral infections, as well as sepsis. The protective effects of GDF15 were largely independent of pathogen control or the magnitude of inflammatory response, suggesting a role in disease tolerance.	

Assay Data

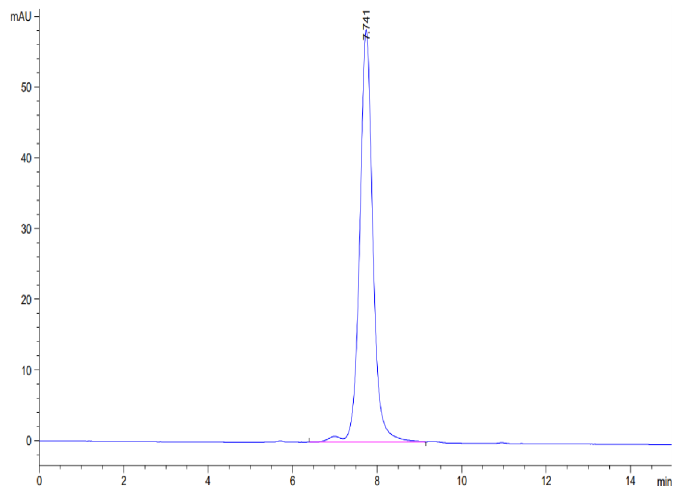
Bis-Tris PAGE



Human GDF15 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

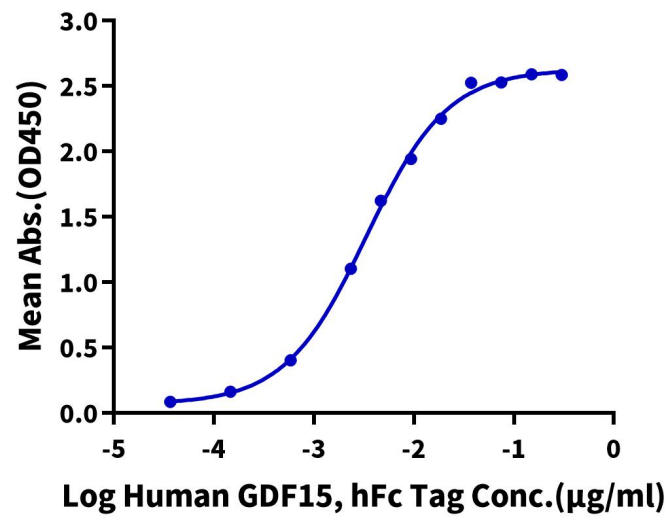
Assay Data



The purity of Human GDF15 is greater than 95% as determined by SEC-HPLC.

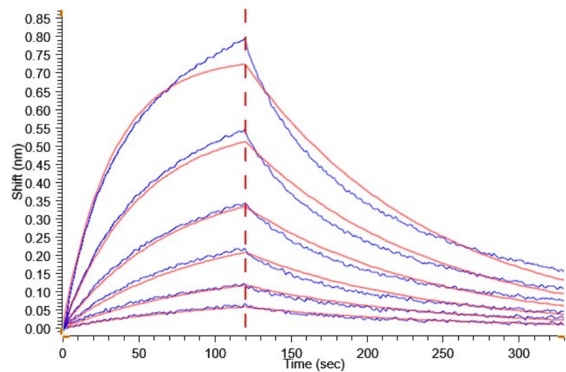
ELISA Data

Human GDF15, hFc 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 (QC Test).

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).