Human GDF15 Protein

Cat. No. GDF-HM215

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 1 EU per μg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE
	>90% as determined by HPLC

Formulation and Storage

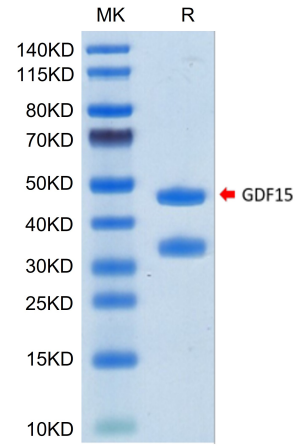
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of 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.

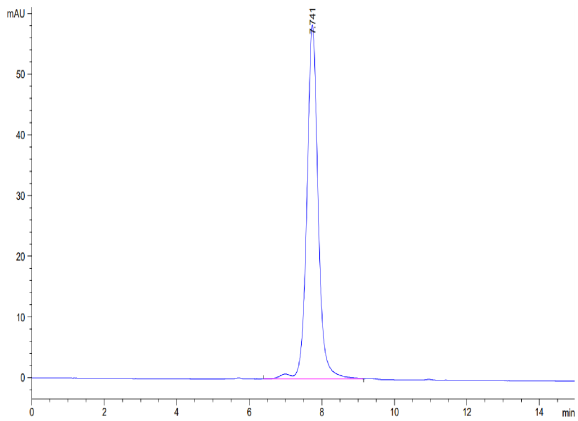
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



The purity of Human GDF15 is greater than 90% as determined by SEC-HPLC.

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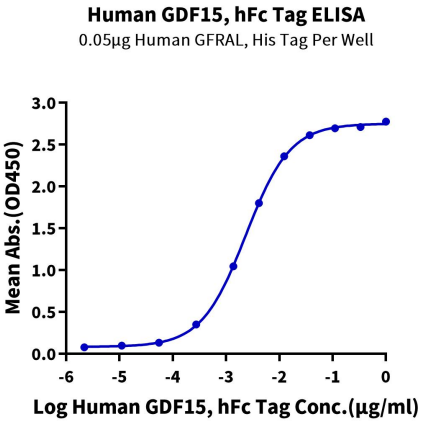
Assay Data

ELISA Data



Immobilized Human GFRAL, His Tag at 0.5 μg/ml (100 μl/well) on the plate. Dose response curve for Human GDF15, hFc Tag with the EC50 of 2.3 ng/ml determined by ELISA (QC Test).