

RP02740

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Recombinant Human GDF15 Protein

Catalog No.: RP02740

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
<i>E. coli</i>	9518	Q99988-1

Tags

N-His

Synonyms

GDF-15; MIC-1; NAG-1; PDF; PLAB;
PTGFB; GDF15; MIC1; RG-1; Placental
TGF-beta; PTGF-beta; PTGFBPTGF-beta

Product Information

Source

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile 50 mM HAc (pH 2.9). Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Purification

≥ 95 % as determined by Tris-Bis PAGE.

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of 50 mM HAc (pH 2.9). Contact us for customized product form or formulation.

Background

Growth Differentiation Factor 15 (GDF15), also known as NSAID activated gene-1 (NAG-1), is associated with a large number of biological processes and diseases, including cancer and obesity. GDF15 is synthesized as pro-GDF15, is dimerized, and is cleaved and secreted into the circulation as a mature dimer GDF15.

Basic Information

Description

Recombinant Human GDF15 Protein is expressed from E.coli with His tag at the N-terminal. ; It contains Ala197-Ile308.

Bio-Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage

Store at -20°C
Avoid repeated freeze/thaw cycles.

Reconstitution

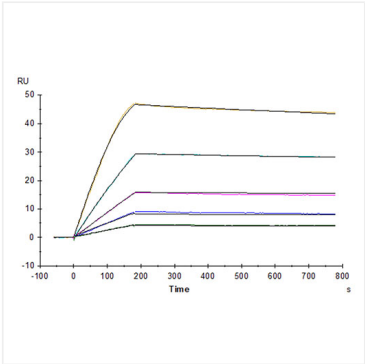
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Contact

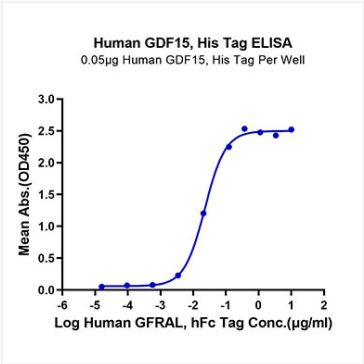


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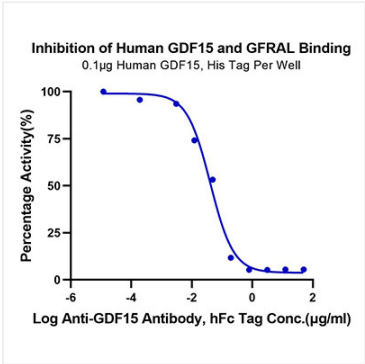
Validation Data



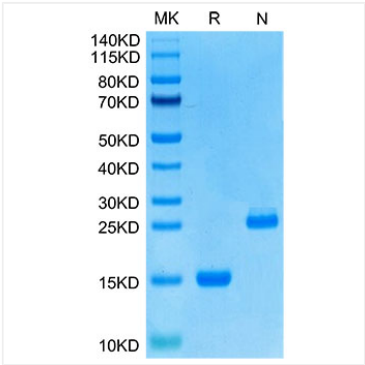
Human GFRAL, hFc Tag captured on CM5 Chip via Protein A can bind Human GDF15, His Tag with an affinity constant of 0.014 nM as determined in SPR assay (Biacore T200).



Immobilized Human GDF15, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Human GFRAL, hFc Tag with the EC₅₀ of 22.8ng/ml determined by ELISA.



Serial dilutions of Anti-GDF15 Antibody were added into Human GDF15, His Tag : Biotinylated Human GFRAL, His Tag binding reactions. The half maximal inhibitory concentration (IC₅₀) is 40.8ng/ml.



Recombinant Human GDF15 Protein was determined by Tris-Bis PAGE under reducing (R) and non-reducing (NR) conditions.