# Recombinant Human GDF15 Protein

## Catalog No.: RP02740



## Sequence Information

**Species**
Human

**Gene ID**
9518

**Swiss Prot**
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**
*E. coli*

**Purification**
≥ 95 % as determined by Tris-Bis PAGE.

**Calculated MW**
13.5 kDa.

**Observed MW**
15-16 kDa.

**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.

**Reconstitution**
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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## 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.

**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.

**Storage**
Store at -20℃

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

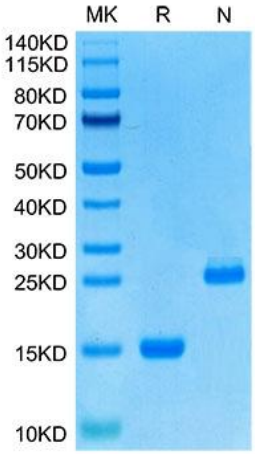
**Contact**

400-999-6126
cn.market@abclonal.com.cn
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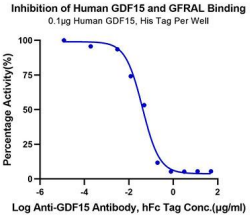


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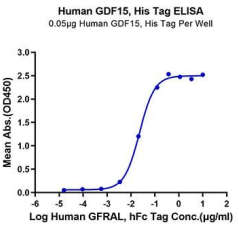
## Validation Data



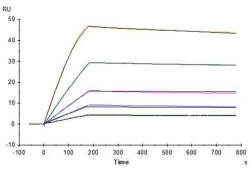

Recombinant Human GDF15 Protein was determined by Tris-Bis PAGE under reducing (R) and non-reducing (NR) conditions.




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




Immobilized Human GDF15, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Human GFRAL, hFc Tag with the $EC_{50}$ of 22.8ng/ml determined by ELISA.



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).



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