

# Human GDF15 Protein; His Tag

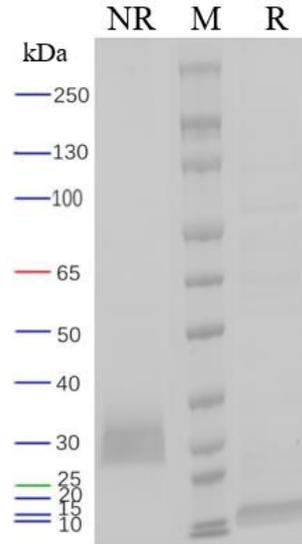
## Product Information

<b>Product Name</b>	Human GDF15 Protein; His Tag
<b>Storage temp.</b>	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
<b>Catalog# / Size</b>	<b>GM-87627RP-100 / 100 <math>\mu\text{g}</math></b> <b>GM-87627RP-1000 / 1 mg</b>

## Protein Information

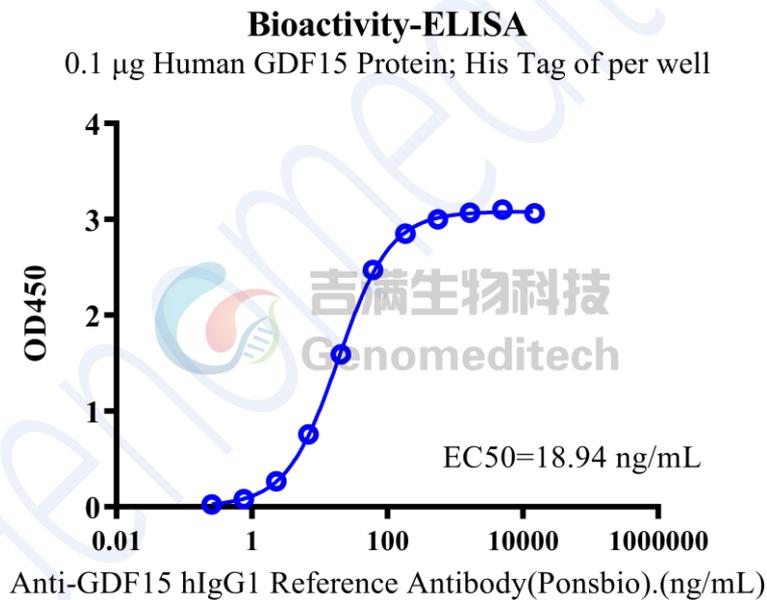
<b>Alternative Names</b>	GDF-15, MIC-1, MIC1, NAG-1, PDF, PLAB, PTGFB, NRG-1
<b>Source</b>	Human GDF15 Protein; His Tag (GM-87627RP) is expressed from human 293 cells (HEK-293). It contains AA Ala197 - Ile308 (Accession # Q99988-1). This protein carries a His tag at the N-terminus.
<b>Purity</b>	> 90% as determined by SDS-PAGE
<b>Endotoxin</b>	< 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay
<b>Predicted Mol Mass</b>	13.0 KDa
<b>Formulation</b>	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.4.
<b>Description</b>	<p>GDF-15 is a cytokine protein belonging to the TGF-<math>\beta</math> superfamily. It is widely expressed in the human body, including in tissues such as the liver, heart, kidneys, lungs, intestines, muscles, brain, and pancreas. The expression of GDF-15 is regulated by various physiological and pathological conditions, such as inflammation, tumors, cardiovascular diseases, and metabolic disorders.</p> <p>GDF-15 plays an important role in physiological processes such as cell proliferation, apoptosis, inflammation, and metabolism. It is considered an important inflammatory marker, playing a crucial role in inflammatory responses and immune reactions. Additionally, GDF-15 has been found to be closely associated with the occurrence, development, and metastasis of tumors, affecting tumor growth by regulating cell proliferation, apoptosis, invasion, and metastasis pathways. In recent years, research has revealed that GDF-15 is also linked to many other diseases such as cardiovascular diseases, metabolic syndrome, diabetes, and kidney diseases. Therefore, GDF-15 has become a research hotspot and is widely used in aspects like disease diagnosis, prognosis assessment, and treatment monitoring.</p>

## SDS-PAGE



On SDS-PAGE under non-reducing (NR) condition and reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

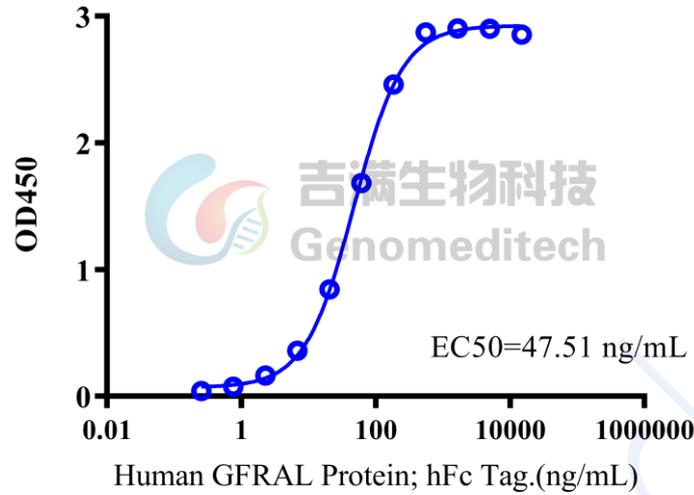
## Bioactivity-ELISA



Human GDF15 Protein; His Tag (Catalog # GM-87627RP) was immobilized at 1  $\mu$ g/ml (100  $\mu$ L/well). Increasing concentrations of Anti-GDF15 hIgG1 Reference Antibody (Ponsbio) (Catalog # GM-87500MAB) were added.

### Bioactivity-ELISA

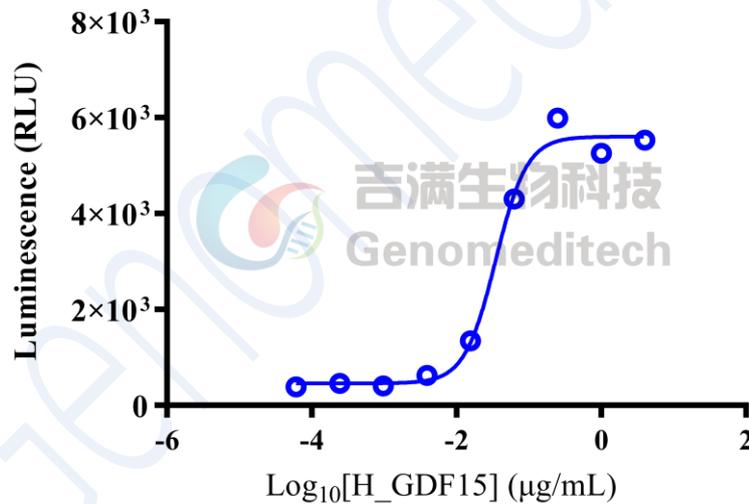
0.1  $\mu\text{g}$  Human GDF15 Protein; His Tag of per well



Human GDF15 Protein; His Tag (Catalog # GM-87627RP) was immobilized at 1  $\mu\text{g}/\text{ml}$  (100  $\mu\text{L}/\text{well}$ ). Increasing concentrations of Human GFRAL Protein; hFc Tag (Catalog # GM-87923RP) were added.

### Bioactivity-CELL BASE

H\_GDF15 Reporter 293 Cell Line



	H_GDF15 Reporter 293 Cell Line
EC50	0.03491

Human GDF15 Protein; His Tag (Catalog # GM-87627RP) was added into H\_GDF15 Reporter 293 Cell Line (Catalog # GM-C06718), and then GDF15/GFRAL signals were stimulated.