

GDF-15 Protein (Primary Amine Labeling), Human, Recombinant (H202D, hFc), Biotinylated

General Information

Synonyms:	Placental TGF- β ;GDF15;RG-1;MIC-1;PTGFB;PTGF-beta;PDF;PTGF- β ;PTGFBPTGF- β ;NAG-1;PTGFBPTGF-beta;PLAB;MIC1;GDF-15;Placental TGF-beta
Protein Construction:	Ala197-Ile308 (H202D)
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q99988
Molecular Weight:	37.88 kDa (predicted). Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human GFRAL, His Tag at 0.5 μ g/ml (100 μ l/well) on the plate. Dose response curve for Biotinylated Human GDF15 (H202D), hFc Tag with the EC50 of 4.4ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μ m filtered solution in PBS (pH 7.4).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein 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.

Reference

Luan HH, et al. GDF15 Is an Inflammation-Induced Central Mediator of Tissue Tolerance. Cell. 2019 Aug 22;178(5):1231-1244.e1doi: 10.1016/j.cell.2019.07.033. Epub 2019 Aug 8. PMID: 31402172; PMCID: PMC6863354.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481