

GDF-15 Protein, Human, Recombinant (E. coli, His)

General Information

Synonyms:	PLAB;PTGFB;NAG-1;MIC1;MIC-1;PDF;growth differentiation factor 15;GDF-15
Protein Construction:	Ala197-Ile308
Species:	Human
Expression Host:	E. coli
Accession:	Q99988-1
Molecular Weight:	13.5 kDa (Predicted); 15-16 kDa (reducing conditions)

QC Testing

Biological Activity:	Immobilized Human GDF15, His Tag at 0.5 µg/ml (100 µl/well) on the plate. Dose response curve for Human GFRAL, hFc Tag with the EC50 of 11.5 ng/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).
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in 50 mM HAc (pH 2.9). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in 50mM HAc (pH 2.9). The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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