

## GDF-15 Protein, Human (Biotinylated, His-Avi)

Cat. No.:	HY-P700665
Synonyms:	GDF-15; MIC-1; NAG-1; PDF; PLAB; PTGFB; GDF15; MIC1; RG-1; Placental TGF-beta; PTGF-beta; PTGFBPTGF-beta; Placental TGF-β; PTGF-β; PTGFBPTGF-β
Species:	Human
Source:	E. coli
Accession:	Q99988-1 (A197-I308)
Gene ID:	9518
Molecular Weight:	15.19 kDa

### PROPERTIES

Biological Activity	Immobilized Human GFRAL, hFc Tag at 1μg/ml (100μl/Well) on the plate. Dose response curve for Biotinylated Human GDF15, His Tag with the EC <sub>50</sub> of 17.5ng/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of 50mM HAC, pH 2.9. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in 50mM HAC, pH 2.9.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	GDF-15 Protein plays a pivotal role in regulating food intake, energy expenditure, and body weight in response to metabolic and toxin-induced stresses. It exerts its effects by binding to its receptor, GFRAL, and activating GFRAL-expressing neurons in the area postrema and nucleus tractus solitarius of the brainstem. This activation subsequently triggers the activation of neurons in the parabrachial nucleus and central amygdala, forming part of the 'emergency circuit' involved in shaping feeding responses during stressful conditions. Additionally, GDF-15 Protein inhibits growth hormone signaling on hepatocytes. It exists as a homodimer and interacts with GFRAL, acting as a ligand that mediates GDF15 internalization and cellular signaling through interaction with RET.
------------	---

---

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA