

Human latent GDF-8 Protein; His Tag

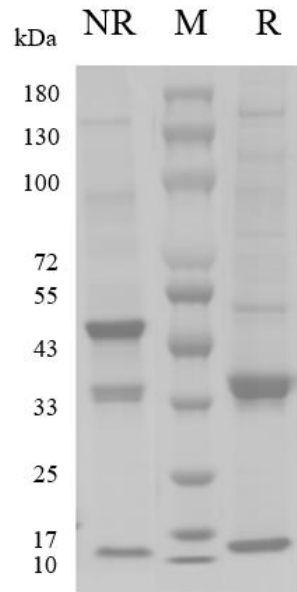
Product Information

Product Name	Human latent GDF-8 Protein; His Tag
Storage temp.	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.
Catalog# / Size	GM-87733RP-100 / 100 μg GM-87733RP-1000 / 1 mg

Protein Information

Alternative Names	GDF-8, Myostatin, GDF8, MSTN, Growth,differentiation factor 8
Source	Human latent GDF-8 Protein; His Tag (GM-87733RP) is expressed from human 293 cells (HEK-293). It contains AA Asn24-Ser375 (Accession # O14793-1). This protein is cleaved by furin. This protein carries a His tag at the N-terminus of mature GDF8.
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/ μg , determined by LAL gel clotting assay
Predicted Mol Mass	39.4 kDa(12.0 kDa(mature) 27.4 kDa(prodomain))
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.4.
Description	<p>GDF-8 protein, also known as Myostatin, is a protein encoded by a gene that plays an important role in humans and other mammals. GDF-8 protein is mainly expressed in muscle cells and acts as a growth factor that inhibits muscle growth and development.</p> <p>Research has shown that GDF-8 protein exerts a negative regulatory effect on muscle growth by inhibiting muscle cell proliferation and differentiation, and promoting muscle cell apoptosis. Therefore, the function of GDF-8 protein is considered to be an important factor limiting muscle growth.</p> <p>In scientific research, GDF-8 protein is widely used to explore muscle growth regulation mechanisms, muscle degenerative diseases, and potential treatment methods. Some studies have also shown that by regulating the expression or activity of GDF-8 protein, muscle quality and strength can be influenced. Therefore, it has potential applications in areas such as exercise rehabilitation, muscular dystrophy, and muscle strengthening.</p>

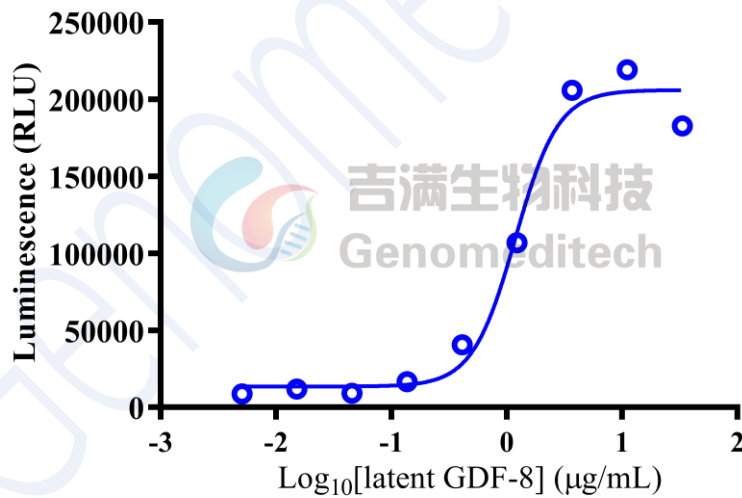
SDS-PAGE



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

Bioactivity-CELL BASE

Activin A Reporter Cell Line



	Human latent GDF-8 Protein; His Tag
EC50	1.192

Human latent GDF-8 Protein; His Tag (Catalog # GM-87733RP) was added into Activin A Reporter Cell Line (Catalog # GM-C26082) and stimulates signals.