GEMINI BIO-PRODUCTS
930 Riverside Parkway, Suite 50 • West Sacramento, CA 95605
800.543.6464 • gembio.com

Product Usage

Product: **Recombinant Human GDF-15**
Cat #: 300-128P
Powder

Description	Growth and Differentiation Factor 15 (GDF-15) is a TGFβ family member, made by the placenta and heart tissues, that has a role in regulating inflammatory and apoptotic pathways. GDF-15 has become an immerging marker of early heart disease and has the potential as being used as a molecule for screening patients for early heart failure. Alternate names: MIC-1, Placental TGFβ, Prostate differentiation factor
MW	Non-glycosylated, disulfide linked homodimer, containing two identical 113 amino acid chains, with a total molecular weight of 24.5 kDa.
Physical Appearance	Sterile filtered white lyophilized (freeze-dried) powder.
Source	*E. coli*
Formulation	Recombinant human GDF-15 is lyophilized with no additives.
Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile 5 mM acetic acid (AcOH) at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.
Stability	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.
Biological Activity	The activity is determined by the inhibition of DU-145 cells and is typically 1-2 µg/mL.
Endotoxin Level	Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein.
AA Sequence	MARNGDHCPL GPGRCCRLHT VRASLEDLGW ADWVLSPREV QVTMCIGACP SQFRAANMHA QIKTSLHRLK PDTVPAPCCV PASYNPMVLI QKTDTGVSLQ TYDDLLAKDC HCI

Purity greater than 95% determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

Protein content determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!