

Growth and Differentiation Factor 15 Human Recombinant

Item Number	rAP-0376
Synonyms	GDF-15, MIC1, MIC-1, NAG-1, PDF, PLAB, PTGFB, Growth/differentiation factor 15, Placental bone morphogenetic protein, Placental TGF-beta, Macrophage inhibitory cytokine 1, Prostate differentiation factor, NSAID-activated gene 1 protein, NSAID-regulated gene
Description	GDF15 Human Recombinant produced in E.Coli is a homodimeric, non-glycosylated, Polypeptide chain containing 2x113 amino acids and having a molecular mass of 24.8 kDa. The GDF15 is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	Q99988
Amino Acid Sequence	MARNGDHCP GPGRCCRLHT VRASLEDLW ADWVLSPREV QVTMCIGACP SQFRAANMHA QIK-TSLHRLK PDTVPAPCCV PASYNPMVLI QKTDTGVSQ TYDDLLAKDC HCl.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized GDF15 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GDF15 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
Formulation and Purity	GDF15 is lyophilized from a sterile filtered solution containing 0.1% Trifluoroacetic Acid (TFA). Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized GDF15 in sterile 18M-cm H2O at a concentration of 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The biological activity was assessed by the inhibition of DU-145 cells and was found to be 1-2µg/ml.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**