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32-1249: GDF15 Recombinant Protein

Alternative Name :	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-regulat

Description

Source : Escherichia Coli. GDF15 Human Recombinant produced in E.Coli is a homodimeric, non-glycosylated, Polypeptide chain containing 2x113 amino acids and having a molecular mass of 24.5 kDa. The GDF15 is purified by proprietary chromatographic techniques. GDF15 is part of the TGF-Beta superfamily that is involved in regulating inflammatory and apoptotic pathways in injured tissues and throughout disease processes. GDF15 is most abundant in the liver. Its expression in liver can be considerably up-regulated in during injury of organs such as liver, kidney, heart and lung. GDF-15 promotes proliferation or growth arrest and differentiation due to differences in cellular differentiation. GDF15 prevents apoptosis in cerebellar granule neurons by activating Akt and inhibiting endogenously active ERK. GDF15 is a novel autocrine/endocrine factor that antagonizes the hypertrophic response and loss of ventricular performance.

Product Info

Amount :	20 µg
Purification :	Greater than 95.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	GDF15 Human Recombinant produced in E.Coli is a homodimeric, non-glycosylated, Polypeptide chain containing 2x113 amino acids and having a molecular mass of 24.5 kDa. The GDF15 is purified by proprietary chromatographic techniques.
Storage condition :	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.
Amino Acid :	MARNGDHCPL GPGRCCRLHT VRASLEDLGW ADWVLSPREV QVTMCIGACP SQFRAANMHA QIKTSLHRLK PDTVPAPCCV PASYNPMVLI QKTDTGVSLQ TYDDLLAKDC HCI.

Application Note

It is recommended to reconstitute the lyophilized GDF15 in sterile 18M-cm H2O at a concentration of 100ÃÂµg/ml, which can then be further diluted to other aqueous solutions. The biological activity was assessed by the inhibition of DU-145 cells and was found to be 1-2ÃÂ¼g/ml.