
Product Data Sheet

Product Name: GDF15 Human
 Cat. No.: GP20316
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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 1 protein; NRG-1; GDF15.		
Amino Acid Sequence	MARNGDHCPL GPGRCCRLHT VRASLEDLGW ADWVLSPREV QVTMCIGACP SQFRAANMHA QIKTSLHRLK PDTVPAPCCV PASYNPMVLI QKTDTGVSLQ TYDDLAKDC HCl.		
Solubility	It is recommended to reconstitute the lyophilized GDF15 in sterile 18M-cm H ₂ O at a concentration of 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	GDF15 is lyophilized from a sterile filtered solution containing 0.1% Trifluoroacetic Acid (TFA).		

Introduction

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.

Biological Activity

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

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The activity can be determined by the inhibition of DU-145 cells and is typically 1-2µg/ml.

Stability

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.

Background

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.

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