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GDF15 Human

Growth and Differentiation Factor 15 Human Recombinant
CYK0172

Product Overview

Name	GDF15 Human
Description	
Growth and Differentiation Factor 15 Human Recombinant	
Accession (Primary)	Q99988
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.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
GDF15 is lyophilized from a sterile filtered solution containing 0.1% Trifluoroacetic Acid (TFA).	
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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	

MARNGDHCPL GPGRCCRLHT VRASLEDLGW ADWVLSPREV QVTMCIGACP SQFRAANMHA QIKTSLHRLK PDTVPAPCCV PASYNPMVLI QKTDTGVSLQ TYDDLLAKDC HCI.

Solubility

It is recommended to reconstitute the lyophilized GDF15 in sterile 18M-cm H 2 O at a concentration of 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

GDF15 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q99988)