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## Product Data Sheet

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Product Name: GDF15 Human, His  
 Cat. No.: GP20314  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMARA RNGDHCPLGP GRCCRLHTVR ASLEDLGWAD WVLSPREVQV TMCIGACPSQ FRAANMHAQI KTS LHRLKPD TVPAPCCVPA SYNPMVLIQK TDTGVSLQTY DLLAKDCHC I.		
Formulation	The GDF15 protein solution contains 10mM sodium citrate, pH-3.5 & 10% glycerol.		

### 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.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

Recombinant Human GDF15 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 151 amino acids (195-308) and having a molecular mass of 16.7 kDa(molecular weight on SDS-PAGE will appear higher).GDF15 is expressed with a 36 amino acid His tag fused at N-Terminus and purified by proprietary chromatographic techniques.

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