9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

GDF15 D Human

Growth and Differentiation Factor 15 D-Variant Human Recombinant
CYK0171

Product Overview

Name	GDF15 D Human

Description

Growth and Differentiation Factor 15 D-Variant Human Recombinant

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 D-variant is lyophilized without additives.

Stability

Lyophilized GDF15 D-variant 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 (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

MARNGDDCPL GPGRCCRLHT VRASLEDLGW ADWVLSPREV QVTMCIGACP SQFRAANMHA QIKTSLHRLK

PDTVPAPCCV PASYNPMVLI QKTDTGVSLQ TYDDLLAKDC HCI.

Solubility

It is recommended to reconstitute the lyophilized GDF15 D-variant in sterile 5mM AcOH (acetic Acid) at a concentration of 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

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