



Growth and Differentiation Factor 15, His Tag, human recombinant (rHuGDF-15-His)

Catalog No: 97306
Lot No: XXXXX
Source: *E. coli*
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

Background

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.

Description

GDF15 human recombinant 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.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The GDF15 protein solution contains 10 mM sodium citrate, pH 3.5 and 10% glycerol.

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

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS MARA RRGDHCP LGP GRCCRLHTVR ASLEDLGWAD WVLSPREVQV
TMCIGACPSQ FRAANMHAQI KTS LHR LKPD TVPAPCCVPA SYNPMVLIQK TDTGVSLQTY DDLLAKDCHC I

Usage

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