

Recombinant human GDF-15 protein

Catalog Number: ATGP0410

PRODUCT INFORMATION

Expression system

E.coli

Domain

195-308aa

UniProt No.

Q99988

NCBI Accession No.

NP_004855

Alternative Names

Growth differentiation factor 15, GDF15, GDF-15, MIC-1, MIC1, NAG-1, PDF, PLAB, PTGFB, Growth differentiation factor 15 NSAID regulated protein 1, Placental TGF beta, GDF 15, Growth/differentiation factor 15, Macrophage inhibitory cytokine 1, MIC 1, NAG 1, NAG1, NRG 1, NRG1, NSAID, NSAID (nonsteroidal anti inflammatory drug) activated protein 1, Placental bone morphogenetic protein, Placental bone morphogenic protein, Prostate differentiation factor, PTGF beta, PTGFB.

PRODUCT SPECIFICATION

Molecular Weight

16.7 kDa (151aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 10mM Sodium Citrate buffer (pH 3.5) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Recombinant human GDF-15 protein

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Description

Growth differentiation factor 15 (GDF-15) is a protein belonging to the transforming growth factor beta superfamily that has a role in regulating inflammatory and apoptotic pathways in injured tissues and during disease processes. This protein is most abundant in the liver, with lower levels seen in some other tissues. Its expression in liver can be significantly up-regulated in during injury of organs such as liver, kidney, heart and lung. GDF-15 was expressed in *E. coli* and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

Amino acid Sequence

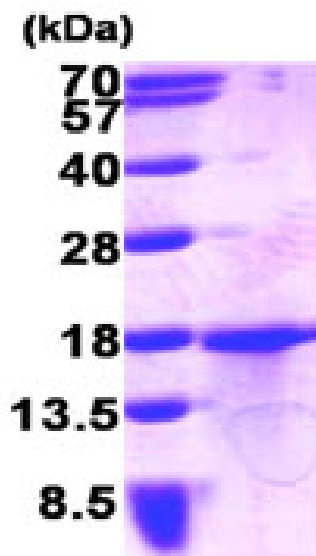
MRGSHHHHHH GMASMTGGGQQ MGRDLYDDDD KDRWGSMARA RRGDHCPLGP GRCCRLHTVR ASLEDLGWAD
WVLSPREVQV TMCIGACPSQ FRAANMHAQI KTSLHRLKPD TVPAPCCVPA SYNPMVLIQK TDTGVSLQTY DLLLAKDCHC I

General References

Paralkar V.M, et al. (1998) *J Biol Chem.* 273:13760-13767.
Hsiao E, Koniaris L., et al. (2000) *Mol Cell Biol* 20(10):3742-51.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)