

Growth and Differentiation factor 15 Active Protein | GDF15 active protein

Recombinant Human Growth and Differentiation factor 15

CATALOG #
AAA38164

HOST
E Coli

PRODUCT SYNONYMS

Growth and Differentiation factor 15; Recombinant Human Growth and Differentiation factor 15; GDF15 Human; Growth and Differentiation Factor 15 Human Recombinant; 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; GDF15 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	GDF15 is lyophilized without additives. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	MARNGDHCPL GPGRCCRLHT VRASLEDLGW ADWVLSPREV QVTMCIGACP SQFRAANMHA QIKTSLHRLK PDTVPAPCCV PASYNPMVLI QKTDTGVSLQ TYDDLAKDC HCI
Sequence Length	308
Solubility	It is recommended to reconstitute the lyophilized GDF15 in sterile 5mM AcOH (acetic Acid) at a concentration of 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The biological activity was assessed by the inhibition of DU-145 cells and was found to be 1-2ug/ml.
Preparation and Storage	Lyophilized GDF15 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution GDF15 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for GDF15 active protein	Description: GDF15 Human Recombinant produced in E Coli is a homodimeric, non-glycosylated, Polypeptide chain containing 2x113 amino acids and having a molecular mass of 24.5 kDa. The GDF15 is purified by proprietary chromatographic techniques. 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.
Product Categories/Family for GDF15 active protein	Cytokines and Growth Factors; Cytokines; Bone Morphogenetic Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	153792495
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NCBI GeneID	9518
NCBI Accession #	NP_004855.2
NCBI GenBank Nucleotide #	NM_004864.2
UniProt Accession #	Q99988 ; O14629 ; P78360 ; Q9BWA0 ; Q9NRT0
NCBI Official Full Name	growth/differentiation factor 15
NCBI Official Synonym Full Names	growth differentiation factor 15
NCBI Official Symbol	GDF15
NCBI Official Synonym Symbols	PDF; MIC1; PLAB; MIC-1; NAG-1; PTGFB; GDF-15
NCBI Protein Information	growth/differentiation factor 15; NRG-1; NSAID (nonsteroidal anti-inflammatory drug)-activated protein 1; NSAID-activated gene 1 protein; NSAID-regulated gene 1 protein; PTGF-beta; macrophage inhibitory cytokine 1; placental TGF-beta; placental bone morphogenetic protein; prostate differentiation factor
UniProt Protein Name	Growth/differentiation factor 15
UniProt Gene Name	GDF15
UniProt Synonym Gene Names	MIC1; PDF; PLAB; PTGFB; GDF-15; MIC-1; NAG-1; NRG-1
UniProt Entry Name	GDF15_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-gdf15-active-protein/growth-and-differentiation-factor-15/38164>