

Active Native Human GDF15 Protein

Cat. No. GDF15-27680TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Human GDF15 Protein was purified from Cell Culture.
Species	Human
Description	GDF-15 belongs to the TGF- β cytokine family whose members play an important role during prenatal development and postnatal growth, remodeling and maintenance of a variety of tissues and organs. GDF-15 is expressed predominantly in placenta and to a much lesser extent in various other tissues. The presence of GDF-15 in amniotic fluid and its elevated levels in the sera of pregnant women suggest a role for GDF-15 in gestation and embryonic development. GDF-15 generally exerts tumor suppressive activities and is one of the predominant factors produced and secreted in response to activation of the p53 pathway. Interestingly, the serum level of GDF-15 is positively correlated with neoplastic progression of several tumor types, including certain colorectal, pancreatic, and prostate cancers. Human GDF-15/MIC-1 is a disulfide linked homodimeric protein consisting of two 114 amino-acid polypeptide chains.
Form	Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM sodium citrate, pH 3.0.
Bio-activity	Determined by its ability to inhibit alkaline phosphatase activity in differentiating MC3T3/E1 osteoblast cells. The expected ED50 for this effect is 1.0-3.0 μ g/ml.
AA Sequence	ARNGDHCPL GPGRCCRLH TVRASLEDL GWADWVLSP REVQVTMCI GACPSQFRA ANMHAQIKT SLHRLKPDV VPAPCCVPA SYNPMVLIQ KTDGTGVSQ

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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Endotoxin	< 1EU per 1g (determined by the LAL method)
Purity	Above 95% as determined by SDS-PAGE Analysis.
Storage	Store at -20 centigrade
Reconstitution	Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein(example 0.1% BSA) and store in working aliquots at -20 centigrade to -80 centigrade.

GENE INFORMATION

Gene Name	GDF15 growth differentiation factor 15 [Homo sapiens]
Official Symbol	GDF15
Synonyms	GDF15; growth differentiation factor 15; growth/differentiation factor 15; MIC 1; MIC1; NAG 1; PDF; PLAB; prostate differentiation factor; PTGFB; NRG-1; PTGF-beta; placental TGF-beta; NSAID-activated gene 1 protein; NSAID-regulated gene 1 protein; macrophage inhibitory cytokine 1; placental bone morphogenetic protein; NSAID (nonsteroidal anti-inflammatory drug)-activated protein 1; MIC-1; NAG-1; GDF-15;
Gene ID	9518
mRNA Refseq	NM_004864
Protein Refseq	NP_004855

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MIM	605312
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UniProt ID	Q99988
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