

Recombinant Human Growth Differentiation Factor 15

Cat. No. GDF15-243H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GDF-15/MIC-1 produced in <i>Cell culture</i> is a disulfide linked homodimeric protein consisting of two 114 amino-acid polypeptide chains.
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.
Purity	98 % (SDS-PAGE, HPLC).
Endotoxin level	< 0.1 ng per μ g of GDF-15/MIC-1.
Stabilizer	None.
Formulation	Lyophilized.
Biologically Activity	Determined by a cell inhibition assay using DU-145 cells. The expected ED50 for this

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effect is 1.0-2.0 µg/ml.

Stability

The lyophilized protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted GDF-15/MIC-1 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name

GDF15 growth differentiation factor 15 [Homo sapiens]

Synonyms

GDF15; growth differentiation factor 15; PDF; MIC1; PLAB; MIC-1;NAG-1; PTGFB; GDF-15; PTGF-beta; prostate differentiation factor; NSAID(nonsteroidal anti-inflammatory drug)-activatedprotein 1; NRG-1; Macrophage inhibitory cytokine 1; NSAID-activated gene1 protein; NSAID-regulated gene 1 protein; Placental TGF-beta; Placentalbone morphogeneticprotein;Growth/differentiation factor 15

Gene ID

9518

mRNA Refseq

NM_004864

Protein Refseq

NP_004855

MIM

605312

UniProt ID

Q99988

Chromosome Location

19p13.11

Function

cytokine activity; growth factor activity

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