9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

32-20567: Human GDF-15/MIC-1 (Cell Culture derived)(Discontinued)

Reactivity : Human, Mouse

Alternative Name : Growth/Differentiation Factor-15, MIC-1, Macrophage Inhibitory Cytokine 1, Placental TGFBeta , Prostate Differentiation Factor

Description

Source:Cell Culture
GDF-15 belongs to the TGF-Beta cytokine family, whose members play an important role during prenatal development and postnatal growth, and the remodeling and maintenance of a variety of tissues and organs. GDF-15 is expressed predominantly in the 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 GDF-15's involvement 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 112 amino acid polypeptide chains.Â The calculated molecular weight of Human GDF-15/MIC-1 is 24.6 kDa.

Product Info

Amount : 5 µg / 20 µg

Purification : Purity:>= 98% by SDS-PAGE gel and HPLC analyses.

Content : This recombinant protein is supplied in lyophilized form.

Amino Acid : ARNGDHCPLG PGRCCRLHTV RASLEDLGWA DWVLSPREVQ VTMCIGACPS QFRAANMHAQ IKTSLHRLKP DTVPAPCCVP ASYNPMVLIQ KTDTGVSLQT YDDLLAKDCH CI

Application Note

Determined by its ability to inhibit alkaline phosphatase activity in differentiating MC3T3/E1 osetoblast cells. The expectedÃ□Â ED_{50}Ã□Â for this effect is 1.0-3.0 Ã□Âµg/ml.Ã□Â

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