GDF-3 Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Growth/Differentiation Factor-3

Cat. No.:

RBG10160005	(5 µg)
RBG10160020	(20 µg)
RBG10160100	(100 µg)

Description

GDF-3 is a member of the TGF-beta superfamily of growth and differentiation factors, and is highly homologous to GDF-9. Unlike most TGF-beta family members, GDF-3 and GDF-9 are not disulfide-linked dimers. GDF-3 is expressed in adult bone marrow, spleen, thymus, and adipose tissue. The expression of GDF-3 is upregulated in high-fat-fed wild-type FABP4/aP2 null mice and was associated with obesity, but not with the related hyperglycemia/hyperin-sulinemia that characterizes Type 2 diabetes. Recombinant Human GDF-3 is a 26.0 kDa non-disulfide-linked homodimer containing two 114 amino acid polypeptide chains.

Research topic

Diabetology - Other Relevant Products

Amino Acid Sequence

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AAIPVPKLSC KNLCHRHQLF INFRDLGWHK WIIAPKGFMA NYCHGECPFS LTISLNSSNY AFMQALMHAV DPEIPQAVCI
PTKLSPISML YQDNNDNVIL RHYEDMVVDE CGCG
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Source

E. coli

Purity

98%

Biological Activity

Determined by its ability to inhibit induced alkaline phosphatase production by ATDC-5 chondrogenic cells. The ED_{50} for this effect is 100-150 ng/ml.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

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°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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