Active Recombinant Human GDF3

Cat. No. GDF3-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GDF-3 is a 26.0 kDa non-disulfide-linked homodimer containing two 114 amino acid polypeptide chains. Manufactured using all non-animal reagents.
Species	Human
Source	E.coli
Description	GDF-3 is a member of the TGF-β superfamily of growth and differentiation factors, and is highly homologous to GDF-9. Unlike most TGF-β 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/hyperinsulinemia which characterizes Type 2 diabetes.
Bio-activity	Determined by its ability to inhibit induced alkaline phosphatase production by ATDC-5 chondrogenic cells. The ED50 for this effect is 100-150 ng/ml.
AA Sequence	AAIPVPKLSC KNLCHRHQLF INFRDLGWHK WIIAPKGFMA NYCHGECPFS LTISLNSSNY AFMQALMHAV DPEIPQAVCI PTKLSPISML YQDNNDNVIL RHYEDMVVDE CGCG
Purity	Greater than 98% by SDS-PAGE gel and HPLC analyses.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.

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

GENE INFORMATION

Gene Name	GDF3 growth differentiation factor 3 [Homo sapiens]
Official Symbol	GDF3
Synonyms	GDF3; growth differentiation factor 3; growth/differentiation factor 3; GDF-3; KFS3; MCOP7; MCOPCB6;
Gene ID	9573
mRNA Refseq	NM_020634
Protein Refseq	NP_065685
MIM	606522
UniProt ID	Q9NR23
Chromosome Location	12p13.1
Function	cytokine activity; growth factor activity;

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