

## Active Recombinant Human GDF3

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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/hyperinsulinemia which characterizes Type 2 diabetes.
<b>Bio-activity</b>	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.
<b>AA Sequence</b>	AAIPVPKLSC KNLCHRHQLF INFRDLGWHK WIIAPKGFMA NYCHGECPFSLTISLNSSNY AFMQALMHAV DPEIPQAVCI PTKLSPISML YQDNNDNVIL RHYEDMVVDE CGCG
<b>Purity</b>	Greater than 98% by SDS-PAGE gel and HPLC analyses.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.

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**GENE INFORMATION**

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

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