

## Active Recombinant Human GDF2 protein

**Cat. No.** GDF2-27488TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human GDF-2 is a 24.1 kDa disulfide linked homodimeric protein consisting of two 110 amino acid polypeptide chains.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>Description</b>	GDF-2 belongs to the TGF- $\beta$ 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-2 is expressed mainly in nonparenchymal cells of the liver, but is also found in other various cells and tissues. GDF-2 can signal through the ALK1 receptor and has been implicated in a number of physiologic events. These include regulation of the hepatic reticuloendothelial system, glucose homeostasis, and iron homeostasis, as well as the inhibition of angiogenesis.
<b>Form</b>	Sterile filtered through a 0.2 micron filter. Lyophilized with no additives.
<b>Bio-activity</b>	Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED50 for this effect is 0.5-1.9 ng/ml.
<b>AA Sequence</b>	SAGAGSHCQ KTSLRVNF E DIGWDSWII APKEYEAYE CKGGCFFPL ADDVTPTKH AIVQTLVHL KFPTKVGKA CCVPTKLSP ISVLYKDDM GVPTLKYHY EGMSVAECG CR
<b>Endotoxin</b>	Endotoxin level is < 0.1 ng/ $\mu$ g of protein (<1EU/ $\mu$ g).

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<b>Purity</b>	Above 95% as determined by SDS-PAGE Analysis.
<b>Storage</b>	Store at -20 centigrade.
<b>Reconstitution</b>	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 centigrade to -80 centigrade

## GENE INFORMATION

<b>Gene Name</b>	GDF2 growth differentiation factor 2 [ Homo sapiens ]
<b>Official Symbol</b>	GDF2
<b>Synonyms</b>	GDF2; growth differentiation factor 2; growth/differentiation factor 2; BMP 9; BMP9; GDF-2; bone morphogenetic protein 9; BMP-9;
<b>Gene ID</b>	2658
<b>mRNA Refseq</b>	NM_016204
<b>Protein Refseq</b>	NP_057288
<b>MIM</b>	605120
<b>UniProt ID</b>	Q9UK05
<b>Chromosome Location</b>	10q11.22
<b>Pathway</b>	ALK1 signaling events, organism-specific biosystem;

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**Function**

cytokine activity; growth factor activity; protein binding;

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