

Active Recombinant Human GDF2 protein

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

SPECIFICATION

Product Overview	Recombinant human GDF-2 is a 24.1 kDa disulfide linked homodimeric protein consisting of two 110 amino acid polypeptide chains.
Species	Human
Source	CHO
Description	GDF-2 belongs to the TGF- β 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.
Form	Sterile filtered through a 0.2 micron filter. Lyophilized with no additives.
Bio-activity	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.
AA Sequence	SAGAGSHCQ KTSLRVNFE DIGWDSWII APKEYEAYE CKGGCFFPL ADDVTPTKH AIVQTLVHL KFPTKVGKA CCVPTKLSP ISVLYKDDM GVPTLKYHY EGMSVAECG CR
Endotoxin	Endotoxin level is < 0.1 ng/ μ g of protein (<1EU/ μ g).

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Purity	Above 95% as determined by SDS-PAGE Analysis.
Storage	Store at -20 centigrade.
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 centigrade to -80 centigrade

GENE INFORMATION

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

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Function

cytokine activity; growth factor activity; protein binding;

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