

Recombinant Human Growth Differentiation Factor 6

Cat. No. GDF6-19H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HumanGDF6 produced in <i>E.coli</i> was a 27.0kDa homodimeric disulfide-linked protein consisting of two 120 amino acid polypeptide chains. This 27.5kDa protein is obtained by proteolytic processing of a biologically inactive precursor protein of 97.7kDa.
Species	Human
Source	E.coli
Description	BMP-13 is expressed in hypertrophic chondrocytes during embryonic development of long bones. Continued postnatal expression of BMP-13 in articular cartilage suggests that it plays a regulatory role in the growth and maintenance of articular cartilage. Adenovirus-mediated BMP-13 gene transfer to rabbit bone marrow stem cells have been reported to augment periosteal repair of osteochondral defects. The functional form of BMP-13/CDMP-2 is a disulfide-linked homodimer of two 120 amino acid polypeptide chains.
Purity	>95% by SDS-PAGE.
Endotoxin Level	<0.1ng/μg of BMP-13.
Stabilizer	None.
Formulation	Lyophilized.

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Biologically Activity	The ED ₅₀ was determined by its ability to induce alkaline phosphatase production by ATDC-5 chondrogenic cells in the range of 2.0-3.0µg/ml.
Reconstitution	The human BMP-13 should be reconstituted in water to a concentration of 0.1-1.0mg/ml. This solution can be diluted in water or other buffer solutions or stored at -20°C.
Stability	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted human BMP-13 should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	GDF6 growth differentiation factor 6 [Homo sapiens]
Synonyms	GDF6; growth differentiation factor 6; KFSL; KFS; GDF16; SGM1; BMP13; CDMP2; MCOP4; SCDO4; MGC158100; MGC158101; Growth/differentiation factor 6; Growth/differentiation factor 16
Gene ID	392255
mRNA Refseq	NM_001001557.2
Protein Refseq	NP_001001557.1
MIM	601147
UniProt ID	Q6KF10
Chromosome Location	8q22.1

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Pathway	Cytokine-cytokine receptor interaction; TGF-beta signaling pathway
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Function	cytokine activity; growth factor activity
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