

Recombinant Human Growth Differentiation Factor 7

Cat. No. GDF7-39H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human GDF7 is a 27 kDa disulfide-linked homodimer containing two 122 amino acid polypeptide chains.
Species	Human
Source	E.coli
Description	GDF7 belong to the TGF- β superfamily of structurally related signaling proteins. As implied by their name, GDF7 promote and regulate bone development, growth, remodeling and repair, in both prenatal development and postnatal growth of eye, heart, kidney, skin, and other tissues. GDF7 is highly conserved across species. GDF7 regulates chondrogenesis, bone morphogenesis, and neuron differentiation.
Biological Activity	The protein is biologically active as determined by its ability to induce alkaline phosphatase production by ADTC5 mouse chondrogenic cells. The ED ₅₀ for this effect is typically 0.2-2.5 μ g/ml.
Molecular Weight	27 kDa
Form	Lyophilized without additives.
Endotoxin Level	< 0.1 ng/ μ g
Appearance	Lyophilized protein

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Purity	≥ 98% by SDS-PAGE and ≥ 98 % by HPLC
Reconstitution	Centrifuge the vial prior to opening. Reconstitute to a concentration of 0.1-1.0 mg/ml in water containing BSA (50 ug BSA per 1 ug of protein). This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.
Storage	The lyophilized protein is best-stored desiccated below 0°C. Reconstituted BMP-5 should be stored in working aliquots at -20°C.

GENE INFORMATION

Gene Name	GDF7 growth differentiation factor 7 [Homo sapiens]
Official Symbol	GDF7
Synonyms	GDF7; growth differentiation factor 7; BMP12; GDF-7; growth differentiation factor 7; growth/differentiation factor 7; OTTHUMP00000115986
Gene ID	151449
mRNA Refseq	NM_182828
Protein Refseq	NP_878248
MIM	604651
UniProt ID	Q7Z4P5
Chromosome Location	2p24.1

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Pathway

TGF-beta signaling pathway

Function

cytokine activity; growth factor activity; protein binding; protein homodimerization activity

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