

Recombinant Human GDF5, His-tagged

Cat. No. GDF5-27678TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human GDF 5 fused to His tag at N-terminus expressed as insoluble protein aggregate; amino acids 382-501 , 15.8kDa.
Species	Human
Source	E.coli
ProteinLength	382-501 a.a.
Description	The protein encoded by this gene is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. Mutations in this gene are associated with acromesomelic dysplasia, Hunter-Thompson type; brachydactyly, type C; and chondrodysplasia, Grebe type. These associations confirm that the gene product plays a role in skeletal development.
Conjugation	HIS
Tissue specificity	Predominantly expressed in long bones during embryonic development.
Form	Liquid
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 10% Glycerol, 10mM Sodium citrate, pH 3.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MAPLATRQ GK RPSKNLKARC SRKALHVNFK DMGWDDWIIA PLEYEAFHCE GLCEFPLRSH LEPTNHAVIQ TLMNSMDPES TPPTCCVPTR LSPISILFID SANNVYKQY EDMVVESCGC R
Sequence Similarities	Belongs to the TGF-beta family.
Full Length	Full L.

GENE INFORMATION

Gene Name	GDF5 growth differentiation factor 5 [Homo sapiens]
Official Symbol	GDF5
Synonyms	GDF5; growth differentiation factor 5; growth/differentiation factor 5; BMP14; cartilage derived morphogenetic protein 1; CDMP1;
Gene ID	8200
mRNA Refseq	NM_000557
Protein Refseq	NP_000548
MIM	601146
Uniprot ID	P43026

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Chromosome Location	20q11.2
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; TGF-beta signaling pathway, organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem;
Function	cytokine activity; growth factor activity;

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