

## Recombinant Human GDF5, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length human GDF 5 fused to His tag at N-terminus expressed as insoluble protein aggregate; amino acids 382-501 , 15.8kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	382-501 a.a.
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Tissue specificity</b>	Predominantly expressed in long bones during embryonic development.
<b>Form</b>	Liquid
<b>Purity</b>	>95% by SDS-PAGE

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<b>Storage buffer</b>	Preservative: None Constituents: 10% Glycerol, 10mM Sodium citrate, pH 3.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequences of amino acids</b>	MGSSHHHHHH SSSLVPRGSH MAPLATRQ GK RPSKNLKARC SRKALHVNFK DMGWDDWIIA PLEYEAFHCE GLCEFPLRSH LEPTNHAVIQ TLMNSMDPES TPPTCCVPTR LSPISILFID SANNVYKQY EDMVVESECGC R
<b>Sequence Similarities</b>	Belongs to the TGF-beta family.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	GDF5 growth differentiation factor 5 [ Homo sapiens ]
<b>Official Symbol</b>	GDF5
<b>Synonyms</b>	GDF5; growth differentiation factor 5; growth/differentiation factor 5; BMP14; cartilage derived morphogenetic protein 1; CDMP1;
<b>Gene ID</b>	8200
<b>mRNA Refseq</b>	NM_000557
<b>Protein Refseq</b>	NP_000548
<b>MIM</b>	601146
<b>Uniprot ID</b>	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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