

Recombinant Human GDF5

Cat. No. GDF5-27470TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment (Human): GDF-5 is a homodimer, non-glycosylated, polypeptide chain containing 2 x 117 amino acids and having a total MW of 26.8 kDa. To enable bacterial expression of GDF-5 the N-terminal sequence Ala-Pro-Leu-Thr was removed and the L
Species	Human
Source	E.coli
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.
Molecular Weight	13.000kDa
Tissue specificity	Predominantly expressed in long bones during embryonic development.
Form	Lyophilised:Reconstitute the lyophilized GDF5 in sterile 20mM AcOH to not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

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Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the TGF-beta family.

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
Chromosome Location	20q11.2

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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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