

Recombinant Human Growth Differentiation Factor 5, His-tagged

Cat. No. GDF-5300H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GDF5 produced in <i>E. Coli</i> is a single, non-glycosylated, polypeptide chain containing 141 amino acids (382-501 aa) and having a total molecular mass of 15.8 kDa. GDF5 is fused to a 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Protein Length	382-501 a.a.
Description	GDF-5 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.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MAPLATRQ GK RPSKNLKARC SRKALHVNFK DMGWDDWIIA PLEYEAFHCE GLCEFPLRSH LEPTNHAVIQ TLMNSMDPES TPPTCCVPTR LSPISILFID SANNVYKQY EDMVVESCGC R

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Purity	Greater than 95.0% as determined by SDS-PAGE.
Physical Appearance	Sterile Filtered colorless solution.
Formulation	The GDF5 solution contains 10mM sodium citrate pH3.5 and 10% glycerol.
Stability	GDF5 although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	GDF5 growth differentiation factor 5 [Homo sapiens]
Synonyms	GDF5; Growth Differentiation Factor 5; OS5; LAP4; BMP14; CDMP1; SYNS2; cartilage-derived morphogenetic protein-1; OTTHUMP00000030755; CDMP-1; GDF-5; Radotermis; BMP-14; OTTHUMP000000061644
Gene ID	8200
mRNA Refseq	NM_000557
Protein Refseq	NP_000548
MIM	601146
UniProt ID	P43026
Chromosome Location	20q11

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Pathway Cytokine-cytokine receptor interaction; TGF-beta signaling pathway

Function cytokine activity; growth factor activity; protein binding

PDB rendering based
on 1waq.

