
Product Data Sheet

Product Name: GDF5 Human, His
 Cat. No.: GP20306
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cartilage-derived morphogenetic protein-1; CDMP-1; LAP4; SYNS2; GDF-5; Radotemin; CDMP1; GDF5; Growth differentiation factor 5; BMP-14.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAPLATRQ GK RPSKNLKARC SRKALHVNFK DMGWDDWIIA PLEYEAFHCE GLCEFPLRSH LEPTNHAVIQ TLMNSMDPES TPPTCCVPTR LSPISILFID SANNVVYKQY EDMVVESCGC R.		
Formulation	The GDF5 solution contains 10mM sodium citrate pH-3.5 and 10% glycerol.		

Introduction

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

GDF5 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 141 amino acids (382-501 a.a.) and having a total molecular mass of

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15.8 kDa. GDF5 is fused to a 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

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