

GDF5 Human, His

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

Catalog #: CYP5-660

For research use only.

Synonyms: Cartilage-derived morphogenetic protein-1, CDMP-1, LAP4, SYNS2, GDF-5, Radotermin, CDMP1, GDF5, Growth differentiation factor 5, BMP-14.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MAPLATRQGK RPSKNLKARC
SRKALHVNFK DMGWDDWIIA PLEYEAFHCE GLCEFPLRSH LEPTNHAVIQ TLMNSMDPES
TPPTCCVPTR LSPISILFID SANNVYKQY EDMVVESEGC R.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The GDF5 solution contains 10mM sodium citrate pH-3.5 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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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.

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