GDF5 (Human) Recombinant Protein

Catalog # P8691 Size 25 ug

Specification

Product Description	Human GDF5 partial recombinant protein with His tag in N-terminus expressed in *Escherichia coli*.
Sequence	MGSSHHHHHHSSGLVPRGSHMAPLATRQGKRPSKNLKARCSRKALHVNFKDMGWDDWIIAPLE YEAFHCEGLCEFPLRSHLEPTNHAVIQTLMNSMDPESTPPTCCVPTRLSPISILFIDSANNVVYKQY EDMVVESCGCR
Host	Escherichia coli
Theoretical MW (kDa)	15.8
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Purification	chromatographic
Purity	> 95% as determined by SDS-PAGE.
Storage Buffer	Solution containing 10mM sodium citrate, pH 3.5, 10% glycerol.
Storage Instruction	Store at 4°C for 2-4 weeks and should be stored at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze/thaw cycles.

Applications

- SDS-PAGE

Gene Info — GDF5

Entrez GeneID	8200
Protein Accession#	P43026

Gene Name	GDF5
Gene Alias	BMP14, CDMP1, LAP4, SYNS2
Gene Description	growth differentiation factor 5
Omim ID	112600 113100 165720 185800 200700 201250 228900 601146 610017
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	OTTHUMP00000030755|OTTHUMP00000061644|cartilage-derived morphogenetic protein-1

Pathway

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

Disease

- Diabetes Mellitus
- Disease Susceptibility
- Fractures
- Genetic Predisposition to Disease
- Hip Dislocation
- Osteoarthritis