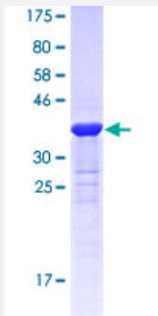


GDF5 (Human) Recombinant Protein (Q02)

Catalog # H00008200-Q02

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human GDF5 partial ORF (NP_000548.1, 28 a.a. - 127 a.a.) recombinant protein with GST tag at N-terminal.
Sequence	APDLGQRPQGTRPGLAKAEAKERPPLARNVFRPGGHSYGGGATNANARAKGGTGQTGGLTQPK KDEPKKLPPRPGGPEPKPGHPPQTRQATARTVTPKGQ
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Interspecies Antigen Sequence	Mouse (76); Rat (76)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — GDF5

Entrez GeneID [8200](#)

GeneBank Accession# [NM_000557.2](#)

Protein Accession# [NP_000548.1](#)

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](#)