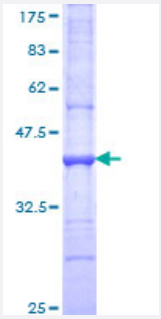
BMP5 (Human) Recombinant Protein (Q01)

Catalog # H00000653-Q01 Size 10 ug, 25 ug

Applications



Specification

Product Description	Human BMP5 partial ORF (NP_066551.1, 341 a.a. - 440 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	VGDYNTSEQKQACKKHELYVSFRDLGWQDWIIAPEGYAAFYCDGECSFPLNAHMNATNHAIVQTL VHLMFPDHVPKPCCAPTKLNAISVLYFDDSSNVIL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
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 — BMP5

Entrez GeneID	653
GeneBank Accession#	NM_021073.1
Protein Accession#	NP_066551.1
Gene Name	BMP5
Gene Alias	MGC34244
Gene Description	bone morphogenetic protein 5
Omim ID	112265
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. Bone morphogenetic proteins were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. These proteins are synthesized as prepropeptides, cleaved, and then processed into dimeric proteins. This protein may act as an important signaling molecule within the trabecular meshwork and optic nerve head, and may play a potential role in glaucoma pathogenesis. This gene is differentially regulated during the formation of various tumors. [provided by RefSeq
Other Designations	OTTHUMP00000016650

Pathway

- Cytokine-cytokine receptor interaction
- Hedgehog signaling pathway

- TGF-beta signaling pathway

Disease

- Congenital Abnormalities
- Genetic Predisposition to Disease
- Obesity
- Osteoarthritis
- Ovarian Failure
- Polycystic Ovary Syndrome
- Puberty
- Thrombophilia
- Tobacco Use Disorder