

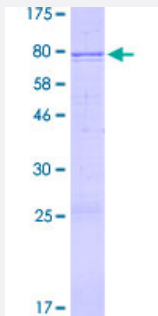
Full-Length

BMP5 (Human) Recombinant Protein (P02)

Catalog # H00000653-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human BMP5 full-length ORF (NP_066551.1, 1 a.a. - 454 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MHLTVFLLKGVGFLWSCWVLVGYAKGGLGDNHVHSSFIYRRLRNHERREIQREILSILGLPHRPRP
FSPGKQASSAPLFMLDLYNAMTNEENPEESEYSVRASLAEEETRGAARKGYASPNGYPRRIQLSRT
TPLTTQSPPLASLHDTNFLNDADMVMSFVNLVERDKDFSHQRRHYKEFRDLTQIPHGEAVTAAE
FRIYKDRSNNRFENETIKISYQIIKEYTNRDADLFLLDTRKAQALDVGWLVFDITVTSNHWVINPQNNL
GLQLCAETGDGRSINVKSAGLVGRQGPQSKQPFMVAFFKASEVLLRSVRAANKRKNQNRNKSS
SHQDSSRMSSVGDYNTSEQKQACKKHEL YVSFRDLGWQDWIAPEGYAAFYCDGEC SFPLNAH
MNATNHAVQLVHLMFPDHPKPKCCAPTKLNAISVL YDDSSNVILKKYRNMVVRSCGCH

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

78.1

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_021073.2](#)

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](#)