Bioactive

# BMP4 (Human) Recombinant Protein

Catalog # P6241 Size 100 ug

## Applications

### Result of activity analysis

Result of activity analysis

## Specification

| | |
|---|---|
| **Product Description** | Human BMP4 (P12644) recombinant protein expressed in CHO cells. |
| **Sequence** | SPKHHSQRARKKNKNCRRHSLYVDFSDVGWNDWIVAPPGYQAFYCHGDCPFPLADHLNSTNHAI VQTLVNSVNSSIPKACCVPTELSAISMLYLDEYDKVVLKNYQEMVVEGCGCR |
| **Host** | Mammals |
| **Theoretical MW (kDa)** | 13.1/26.2 |
| **Form** | Lyophilized |
| **Purity** | >= 95% |
| **Endotoxin Level** | <= 1 EUs/ug (Kinetic LAL) (50% confidence) |
| **Activity** | $ED_{50}$ <= 15 ng/mL<br>Alkaline phosphatase activity induced in ATDC-5 cells<br><br>The values provided above are minimum expected values to pass internal requirements. |
| **Quality Control Testing** | Reducing and Non-Reducing SDS PAGE |
| **Conformation** | Dimer |

Copyright © 2023 Abnova Corporation. All Rights Reserved.

| | |
|---|---|
| **Storage Buffer** | Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA). |
| **Storage Instruction** | Stored at -20°C to-80°C for 12 month.<br>After reconstitution with sterile water at 0.1 mg/mL, store at -20°C to -80°C for 3 months, store at 4°C for 1 month.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | Result of activity analysis<br>Result of activity analysis |

## Applications

- Functional Study
- Western Blot

## Gene Info — BMP4

| | |
|---|---|
| **Entrez GeneID** | 652 |
| **Protein Accession#** | P12644 |
| **Gene Name** | BMP4 |
| **Gene Alias** | BMP2B, BMP2B1, MCOPS6, ZYME |
| **Gene Description** | bone morphogenetic protein 4 |
| **Omim ID** | 112262 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is 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 a bility of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskelet al site. This particular family member plays an important role in the onset of endochondral bone fo rmation in humans, and a reduction in expression has been associated with a variety of bone dise ases, including the heritable disorder Fibrodysplasia Ossificans Progressiva. Alternative splicing in the 5' untranslated region of this gene has been described and three variants are described, all encoding an identical protein. [provided by RefSeq |
| **Other Designations** | bone morphogenetic protein 2B |

Copyright © 2023 Abnova Corporation. All Rights Reserved.

## Pathway

- Basal cell carcinoma
- Cytokine-cytokine receptor interaction
- Hedgehog signaling pathway
- Pathways in cancer
- TGF-beta signaling pathway

## Disease

- Alzheimer disease
- Anemia
- Bone Diseases
- Calcinosis
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Coloboma
- Colorectal Neoplasms
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Nephropathies
- Disease Susceptibility
- Edema
- Gaucher disease
- Genetic Predisposition to Disease
- Hemochromatosis

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- Hypospadias
- Kidney Failure
- Malignant melanoma
- Melanoma
- Metabolic Syndrome X
- Microphthalmos
- Neoplasms
- Neural Tube Defects
- Obesity
- Osteoporosis
- Ovarian Failure
- Ovarian Neoplasms
- Polycystic Ovary Syndrome
- Prenatal Exposure Delayed Effects
- Puberty
- Skin Neoplasms
- Thrombophilia
- Tobacco Use Disorder

Copyright © 2023 Abnova Corporation. All Rights Reserved.