Bioactive

BMP4 (Human) Recombinant Protein

Catalog # P8474 Size 2 x 10 ug

Specification

Product Description	Human BMP4 (P12644) recombinant protein expressed in CHO cells.
Sequence	SPKHHSQRARKKNKNCRRHSLYVDFSDVGWNDWIVAPPGYQAFYCHGDCPFPLADHLNSTNHAI VQTLVNSVNSSIPKACCVPTELSAISMLYLDEYDKVVLKNYQEMVVEGCGCR.
Host	Human
Theoretical MW (kDa)	26.2
Form	Lyophilized
Preparation Method	CHO cell expression system
Purity	> 95% by SDS-PAGE
Activity	The ED_{50} as calculated by Alkaline phosphatase activity induced in ATDC-5 cells is 15ng/mL corres ponding to a specific activity which is 6.7 x 10^4 units/mg.
Storage Buffer	The protein was lyophilized from a sterile (0.2um) filtered solution containing 0.1% Trifluoroacetic Aci d (TFA).
Storage Instruction	Store at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles.

Applications

- Functional Study
- SDS-PAGE

Gene Info — BMP4

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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

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

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- 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
- Hypospadias
- Kidney Failure
- Malignant melanoma
- Melanoma
- Metabolic Syndrome X
- Microphthalmos
- Neoplasms
- Neural Tube Defects
- Obesity
- Osteoporosis
- Ovarian Failure
- Ovarian Neoplasms
- Polycystic Ovary Syndrome

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- Prenatal Exposure Delayed Effects
- Puberty
- Skin Neoplasms
- Thrombophilia
- Tobacco Use Disorder

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