Bioactive

BMP2 (Human/Mouse/Rat) Recombinant Protein

Catalog # P6316 Size 100 ug

Applications

Result of activity analysis

Result of activity analysis

Specification

Product Description	Human/Mouse/Rat INHBA (P12643/P21274/P49001) recombinant protein expressed in *E.Coli*.
Sequence	MQAKHKQRKRLKSSCKRHPLYVDFSDVGWNDWIVAPPGYHAFYCHGECPFPLADHLNSTNHAIV QTLVNSVNSKIPKACCVPTELSAISMLYLDENEKVVLKNYQDMVVEGCGCR
Host	Escherichia coli
Theoretical MW (kDa)	13.0/26.1
Form	Lyophilized
Preparation Method	This product is produced with no animal or human origin raw products. All processing and handling e mploys animal free equipment and animal free protocols.
Purity	>= 95%
Endotoxin Level	<= 1 EUs/ug (Kinetic LAL)
Activity	ED_{50} <= 250 ng/mL Alkaline phosphatase activity induced in ATDC-5 cells The values provided above are minimum expected values to pass internal requirements.
Quality Control Testing	Reducing and Non-Reducing SDS PAGE

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Conformation	Dimer
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. 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. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- Functional Study
- Western Blot

Gene Info — BMP2

Entrez GeneID	650
Protein Accession#	P12643/P21274/P49001
Gene Name	BMP2
Gene Alias	BMP2A
Gene Description	bone morphogenetic protein 2
Omim ID	112261 235200
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene belongs to the transforming growth factor-beta (TGFB) superfamily. The encoded protein acts as a disulfide-linked homodimer and induces bone and cartilage formation. [provided by RefSeq
Other Designations	OTTHUMP00000030228

Gene Info — Bmp2

Entrez GeneID	12156

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Protein Accession#	P12643/P21274/P49001
Gene Name	Bmp2
Gene Alias	AI467020, Bmp2a
Gene Description	bone morphogenetic protein 2
Gene Ontology	Hyperlink
Other Designations	OTTMUSP00000016666

Gene Info — Bmp2

Entrez GeneID	29373
Protein Accession#	P12643/P21274/P49001
Gene Name	Bmp2
Gene Alias	-
Gene Description	bone morphogenetic protein 2
Gene Ontology	Hyperlink
Other Designations	-

Pathway

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

Disease

- Abortion

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- Asthma
- Calcinosis
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Colorectal Neoplasms
- Diabetes Mellitus
- Diabetic Nephropathies
- Disease Progression
- Edema
- Genetic Predisposition to Disease
- Hemochromatosis
- Hyperparathyroidism
- Kidney Failure
- Narcolepsy
- Obesity
- Ossification of Posterior Longitudinal Ligament
- Osteoarthritis
- Osteoporosis
- Ovarian Failure
- Overweight
- Polycystic Ovary Syndrome
- Puberty
- Sudden Infant Death
- Thrombophilia
- Tobacco Use Disorder

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