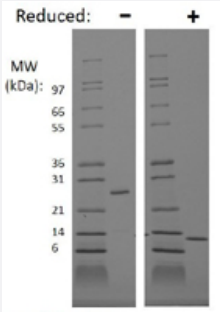
Bioactive

BMP2 (Human/Mouse/Rat) Recombinant Protein

Catalog # P6458 Size 10 ug

Applications



1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human BMP-2 has predicted MW of 26.0 KDa as a homodimer (with each subunit having a MW of 13.0 kDa).

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.

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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 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human BMP-2 has predicted MW of 26.0 KDa as a homodimer (with each subunit having a MW of 13.0 kDa).
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 prior to reconstitution for 1 year. After reconstitution with sterile water at 0.1 mg/mL, store at 4°C for 1 month. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C for 3 months. Aliquot to avoid repeated freezing and thawing. Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended sol ution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution .
Note	Result of activity analysis Result of activity analysis

Applications

- Western Blot
- Functional Study

Gene Info — BMP2

Entrez GeneID	650
Protein Accession#	P12643/P21274/P49001
Gene Name	BMP2
Gene Alias	BMP2A

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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) superfa mily. The encoded protein acts as a disulfide-linked homodimer and induces bone and cartilage f ormation. [provided by RefSeq
Other Designations	OTTHUMP00000030228

Gene Info — Bmp2

Entrez GeneID	12156
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

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

Disease

- Abortion
- 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

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- Osteoporosis
- Ovarian Failure
- Overweight
- Polycystic Ovary Syndrome
- Puberty
- Sudden Infant Death
- Thrombophilia
- Tobacco Use Disorder

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