Bioactive HuPro®

BMP2 (Human) Recombinant Protein,homodimeric

Catalog # P8470 Size 2 x 10 ug

Specification

Product Description	Human BMP2 (P12643) recombinant protein expressed in HEK293 cells.
Sequence	QAKHKQRKRLKSSCKRHPLYVDFSDVGWNDWIVAPPGYHAFYCHGECPFPLADHLNSTNHAIVQ TLVNSVNSKIPKACCVPTELSAISMLYLDENEKVVLKNYQDMVVEGCGCR.
Host	Human
Theoretical MW (kDa)	28
Form	Lyophilized
Preparation Method	HEK 293T cell expression system
Purity	> 95% by SDS-PAGE
Activity	The specific activity as determined by the dose dependent induction of alkaline phosphatase product ion in the ATDC-5 cell line (Mouse chondrogenic cell line) was found to be 6.53ng/mL.
Storage Buffer	Lyophilized from 2xPBS with 6% ethanol.
Storage Instruction	Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Applications

- Functional Study
- SDS-PAGE

Gene Info — BMP2

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Entrez GeneID	650
Protein Accession#	P12643
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

Pathway

- 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

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- 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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