

Bioactive

BMP2 (Human) Recombinant Protein,homodimeric

Catalog # P8469

Size 2 x 10 ug

Specification

Product Description	Human BMP2 (P12643) recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	MQAKHKQRKRLKSSCKRHPLYVDFSDVGWNDWVAPPGYHAFYCHGECPFPLADHLNSTNHAM QTLVNSVNSKIPKACCVPTLSAISMLYLDENEKVVLKNYQDMVVEGCGCR.
Host	Escherichia coli
Theoretical MW (kDa)	26
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purity	> 95% by HPLC and SDS PAGE
Activity	The ED ₅₀ as determined by the ability to induce alkaline phosphatase production by ATDC-5 cells is 0.5-1.0 ug/mL.
Storage Buffer	Lyophilized from 10mM sodium citrate pH 3.5.
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

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](#)
- [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](#)