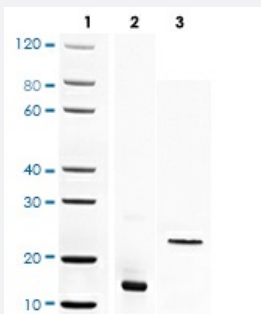


Bioactive

BMP2 (Human) Recombinant Protein

Catalog # P7258 Size 10 ug

Applications



Result of bioactivity analysis

Result of bioactivity analysis

Specification

Product Description	Human BMP2 (P12643, 283 a.a. - 396 a.a.) partial recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	QAKHKQRKRLKSSCKRHPLYVDFSDVGWNDWIVAPPGYHAFYCHGECPFPLADHLNSTNHAVQ TLVNSVNSKIPKACCVPTLSAISMLYLDENEKVVLKNYQDMVVEGCGCR
Host	Escherichia coli
Theoretical MW (kDa)	26
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system

Purity	> 95% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by gel clotting method)
Activity	The ED ₅₀ as determined by the ability to induce alkaline phosphatase production by ATDC-5 Cells is 0.07 - 0.2 ug/ml. The ED ₅₀ as determined by the ability to induce alkaline phosphatase production by C2C12 cells is 0.2 - 1 ug/ml
Quality Control Testing	2 ug protein in Reducing and Non-Reducing SDS PAGE Stained with Coomassie Blue
Storage Buffer	Lyophilized from 20 mM AcOH or 5 mM HClr up to 100 ug/ml
Storage Instruction	Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis Result of bioactivity analysis

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](#)