

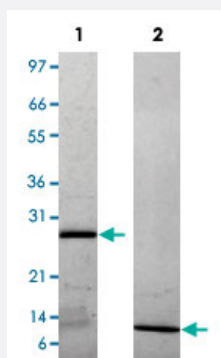
Bioactive

BMP2 (Human) Recombinant Protein

Catalog # P4376

Size 10 ug

Applications



Lane 1: non-reducing conditions

Lane 2: reducing conditions

Result of activity analysis

Result of activity analysis

Serial dilutions of human BMP2, starting at 1 ug/mL, were added to ATDC-5 cells. After 69 hours, alkaline phosphatase activity was measured and the linear portion of the curve was used to calculate the ED50.

Specification

Product Description	Human BMP2 (P12643) recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	MQAKHKQRKRLKSSCKRHPLYVDFSDVGWNDWVAPPGYHAFYCHGECPFPLADHLNSTNHAI QTLVNSVNSKIPKACCVPTLSAISMLYLDENEKVVLKKNYQDMVVEGCGCR
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	26
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Endotoxin Level	< 0.1 EU/ug

Activity	The activity is determined by the alkaline phosphatase activity in ATDC-5 cells. The expected ED ₅₀ for this effect is 56-85 ng/mL.
Quality Control Testing	1 ug/lane in 4-20% Tris-Glycine gel Stained with Coomassie Blue Lane 1: non-reducing conditions Lane 2: reducing conditions
Storage Buffer	Lyophilized from 10 mM sodium citrate, pH 3.0
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with sterilized water, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis Serial dilutions of human BMP2, starting at 1 ug/mL, were added to ATDC-5 cells. After 69 hours, alkaline phosphatase activity was measured and the linear portion of the curve was used to calculate the ED ₅₀ .

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](#)