

Recombinant Human BMP2

Cat. No. BMP2-26315TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP2. A 26 kDa homodimeric protein consisting of two 115 amino acid polypeptide chains.
Species	Human
Source	E.coli
ProteinLength	283-396 aa
Description	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.
Tissue specificity	Particularly abundant in lung, spleen and colon and in low but significant levels in heart, brain, placenta, liver, skeletal muscle, kidney, pancreas, prostate, ovary and small intestine.
Form	Lyophilised:Centrifuge the vial prior to opening.Reconstitute in water containing BSA (50ug of BSA per 1ug of protein) to a concentration of 0.1-1.0 mg/ml.This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C f
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneEndotoxin level is less than 0.1 ng per µg (1EU/µg).

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MQAKHKQRKR LKSSCKRHPL YVDFSDVGWN DWIVAPPGYH AFYCHGECPP PLADHLNSTN HAIVQTLVNS VNSKIPKACC VPTELSAISM LYLDENEKVV LKNYQDMVVE GCGCR
Sequence Similarities	Belongs to the TGF-beta family.

GENE INFORMATION

Gene Name	BMP2 bone morphogenetic protein 2 [Homo sapiens]
Official Symbol	BMP2
Synonyms	BMP2; bone morphogenetic protein 2; BMP2A;
Gene ID	650
mRNA Refseq	NM_001200
Protein Refseq	NP_001191
MIM	112261
Uniprot ID	P12643
Chromosome Location	20p12
Pathway	Adipogenesis, organism-specific biosystem; Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Cytokine-cytokine receptor

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interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem;

Function

BMP receptor binding; SMAD binding; activin receptor activity, type II; cytokine activity; growth factor activity;

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