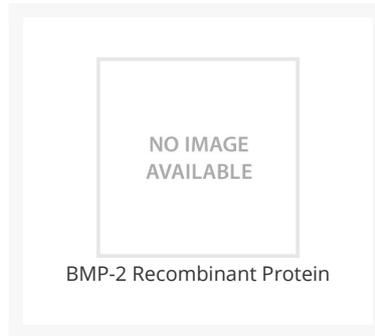




BMP-2 Recombinant Protein

Cat. No.: 40-106



Ψ Specifications

SPECIES:	Human, Mouse, Rat
SOURCE SPECIES:	E. coli
SEQUENCE:	MQAKHKQRKR LKSSCKRHPL YVDFSDVGWN DWIVAPPGYH AFYCHGECPF PLADHLNSTN HAIVQTLVNS VNSKIPKACC VPTLSAISM LYLDENEKVV LKNYQDMVVE GCGCR
TESTED APPLICATIONS:	

Ψ Properties

PURITY:	Greater than 98% by SDS-PAGE gel and HPLC analyses. Endotoxin level is less than 0.1 ng per µg (1EU/µg).
PHYSICAL STATE:	Lyophilized
STORAGE CONDITIONS:	The lyophilized BMP-2 recombinant protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted BMP-2 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. As with any protein, exposing BMP-2 recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

OFFICIAL SYMBOL:	BMP2
ALTERNATE NAMES:	BDA2, BMP2A, Bone morphogenetic protein 2, Bone morphogenetic protein 2A, BMP-2
ACCESSION NO.:	NP_001191.1
PROTEIN GI NO.:	4557369
GENE ID:	650

Background and References

BACKGROUND:	<p>BMPs (Bone Morphogenetic Proteins) belong to the TGF-beta superfamily of structurally related signaling proteins. BMP-2 is a potent osteoinductive cytokine, capable of inducing bone and cartilage formation in association with osteoconductive carriers such as collagen and synthetic hydroxyapatite. In addition to its osteogenic activity, BMP-2 plays an important role in cardiac morphogenesis and is expressed in a variety of tissues including lung, spleen, brain, liver, prostate ovary and small intestine. The functional form of BMP-2 is a 26 kDa protein composed of two identical 114 amino acid polypeptide chains linked by a single disulfide bond. Each BMP-2 monomer is expressed as the C-terminal part of a precursor polypeptide, which also contains a 23 amino acid signal sequence for secretion, and a 259 amino acid propeptide. After dimerization of this precursor, the covalent bonds between the propeptide (which is also a disulfide-linked homodimer) and the mature BMP-2 ligand are cleaved by a furin-type protease. Recombinant human BMP-2 is a 26.0 kDa homodimeric protein consisting of two 115 amino acid polypeptide chains.</p>
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