

Recombinant Human BMP2 protein

Cat. No. BMP2-1119H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP2 (Ala284-Arg396) protein carried no tag and was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	Ala284-Arg396
Description	Human bone morphogenetic protein 2 (BMP2) is also known as human BMP-2, BMP-2, BMP2, BMP 2, h-BMP-2, rh-BMP-2, recombinant human BMP-2, recombinant BMP-2, BMP, is a member of the BMP subgroup belonging to the TGF-β 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. As implied by its name, BMPs promote and regulate bone development, growth, remodeling and repair, in both prenatal development and postnatal growth of eye, heart, kidney, skin, and other tissues. BMP2 has been demonstrated to potently induce osteoblast differentiation in a variety of cell types, and induce apoptosis in human myeloma cell lines as a novel function.
Predicted N Terminal	Ala284

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Form	Lyophilized from 0.22 µm filtered solution in 100 mM Acetic Acid, pH2.0, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 13.0 kDa. the protein migrates as 14 kDa under reducing (R) condition, and 28 kDa under non-reducing (NR) condition (SDS-PAGE).
Endotoxin	Less than 1.0 EU per µg by the LAL method.
Purity	>92% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	BMP2
Official Symbol	BMP2
Synonyms	BMP2; bone morphogenetic protein 2; BMP2A; BMP-2A; bone morphogenetic protein 2A; BDA2
Gene ID	650

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mRNA Refseq	NM_001200
Protein Refseq	NP_001191
MIM	112261
UniProt ID	P12643

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