

Recombinant Human BMP-2

CATALOG #:	4577-10	10 µg
	4577-50	50 µg
	4577-1000	1 mg
LOT #:	_____	
SOURCE:	<i>E. coli</i>	
PURITY:	>98% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng per µg of BMP-2.	
FORM:	Lyophilized from 10 mM Sodium Citrate, pH 3.5.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute to a concentration of 0.1-1.0 mg/ml in water containing BSA (50 µg BSA per 1 µg of protein). This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated below 0°C. Reconstituted BMP-2 should be stored in working aliquots at -20°C.

DESCRIPTION:

BMPs (bone morphogenetic proteins) belong to the TGF-β superfamily of structurally related signaling proteins. As implied by their 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. In addition to its osteogenic activity, BMP-2 also plays an important role in cardiac morphogenesis. BMP-2 is expressed in a variety of tissues such as lung, spleen, brain, liver, prostate ovary, and small intestine. Recombinant human BMP-2 is a 26 kDa homodimeric protein consisting of two 115 amino acid polypeptide chains.

BIOLOGICAL ACTIVITY:

The ED₅₀ as determined by the dose-dependent cytolysis of MC3T3-E1 cells is ≤ 50 ng/ml.

USAGE: For Research Use Only. Not for use in humans.

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