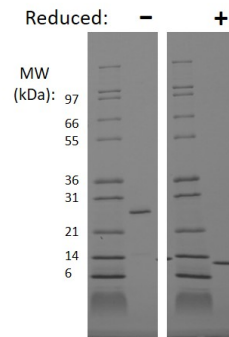
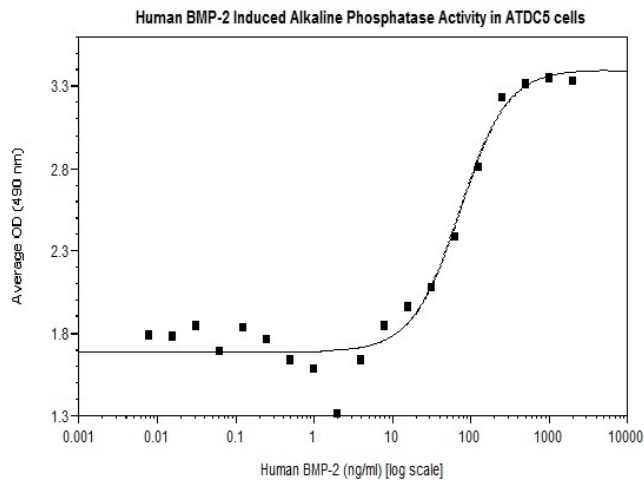


BMP2

Recombinant Human/Mouse/Rat BMP-2

Catalog No.	CRB100B CRB100C CRB100D	Quantity:	10 µg 1.0 mg 100 µg
Alternate Names:	BMP2A, bone morphogenetic protein 2		
Description:	<p>Bone Morphogenetic Protein 2 is a member of the BMP family of proteins, which are important for the development of bone and cartilage. BMP-2 through 7 belong to the TGF-beta superfamily. BMP-2 is produced as a pre/pro-protein, which is proteolytically processed to generate each subunit of the disulfide-linked homodimer, BMPs signal through type I and type II receptor tyrosine kinases and through SMAD proteins.</p> <p>Recombinant Human BMP-2 has 100% sequence homology with mouse and rat BMP-2.</p>		
UniProt ID:	P12643 (human)		
Source:	<i>E. coli</i>		
Molecular Weight:	13.0/26.1 kDa (115 aa/330 aa) homodimer		
Formulation:	Lyophilized from a sterile-filtered solution containing 0.1% Trifluoroacetic Acid (TFA).		
Purity:	≥95% by reducing and non-reducing SDS-PAGE.		
Endotoxin Level:	≤1 EU/µg, determined by kinetic LAL analysis.		
Biological Activity:	≤ 250 ng/ml, determined by induced alkaline phosphatase activity in mouse ATDC-5 cells.		
Specific Activity:	≥ 4.0 x 10 ³ U/mg		
Amino Acid Sequence:	MQAKHKQRKR LKSSCKRHPL YVDFSDVGWN DWIVAPPGYH AFYCHGECPP PLADHLNSTN HAIVQTLVNS VNSKIPKACC VPTELSAISM LYLDENEKVV LKNYQDMVVE GCGCR		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/ml. DO NOT VORTEX. Allow several minutes for complete reconstitution. Further dilution should be made in appropriate buffered solutions containing a carrier protein such as 0.1% BSA.		
Storage & Stability:	Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store as supplied, for up to 1 year at -20°C to -80°C. Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, freeze in working aliquots and store at -20 to -80°C. Avoid repeated freeze-thaw cycles.		





Human BMP-2 Gel

1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human BMP-2 has a predicted MW of 26.0 kDa as a homodimer (with each subunit having a MW of 13.0 kDa).

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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