

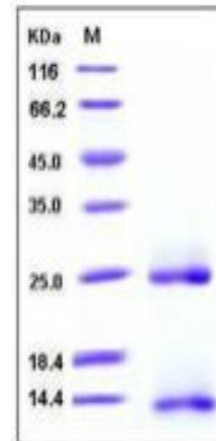
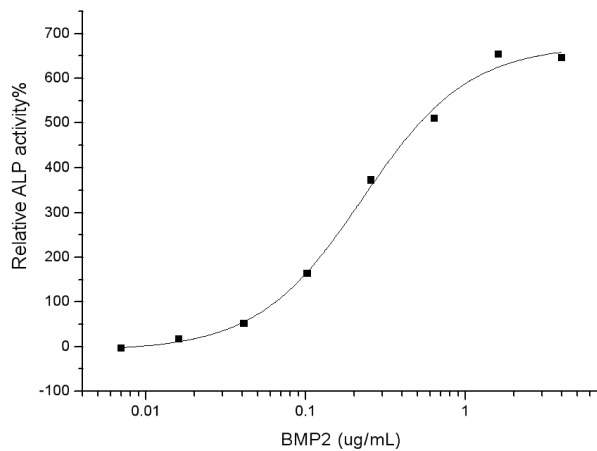
BMP2

Recombinant Human, Mouse, Rat, Rhesus, Canine BMP-2 / BMP-2A

Catalog No.	CRH480A CRH480B CRH480C	Quantity:	20 µg 100 µg 1.0 mg
Alternate Names:	Bone morphogenetic protein 2, BMP-2, Bone morphogenetic protein 2A, BMP-2A		
Description:	BMP-2 protein, like other bone morphogenetic proteins, plays an important role in the development of bone and cartilage. BMP-2 protein is involved in the hedgehog pathway, TGF beta signaling pathway, and cytokine-cytokine receptor interaction. BMP-2 and BMP-7 are osteogenic BMPs that have been demonstrated to potently induce osteoblast differentiation in a variety of cell types. BMP-2, BMP-4 and BMP-7 are known to be of major importance in bone formation and repair. In cancerous tissues BMP-2 protein may play an important role in the progression of glioma.		
UniProt ID:	P12643		
Accession Number:	NP_001191.1		
Protein Construction:	A DNA sequence encoding the mature form of human BMP-2 (Gln283-Arg396) was expressed. The mature form sequences of human, mouse, rat, rhesus and canine BMP-2 are identical.		
Source:	E. coli		
Formulation:	Lyophilized from sterile 30 % ACN, 0.1 % TFA, pH 2.9. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The recombinant human BMP-2 monomer consists of 115 amino acids and has a predicted molecular mass of 13 kDa.		
Purity:	> 95 % as determined by SDS-PAGE		
Biological Activity:	Measured by its ability to induce alkaline phosphatase production by MC3T3-E1 mouse osteoblastic cells. The ED50 for this effect is typically 0.1-0.5µg/mL.		
Predicted N-terminal:	Met		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		
Storage & Stability:	Stable for up to 1 year from date of receipt at -20°C to -80°C After reconstitution, store working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

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SDS-PAGE



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