

## BMP2

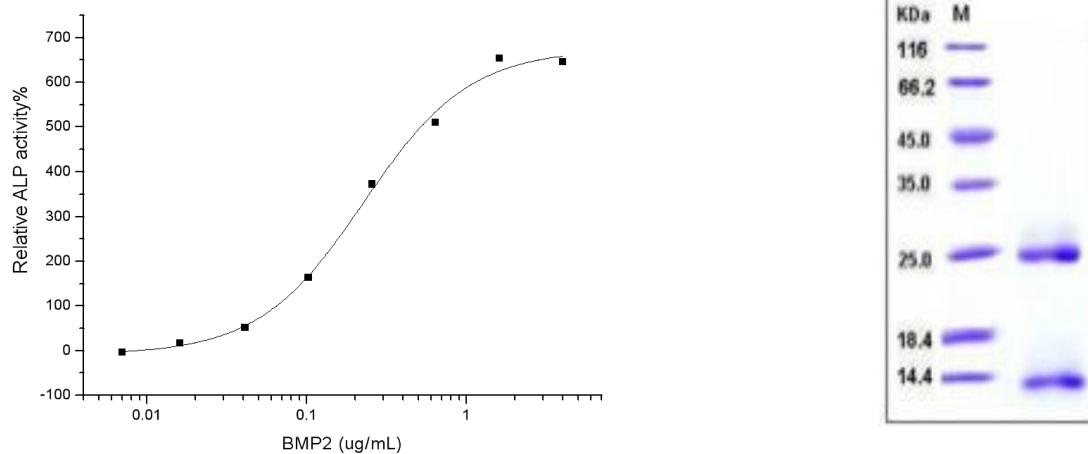
### Recombinant Human, Mouse, Rat, Rhesus, Canine BMP-2 / BMP-2A

<b>Catalog No.</b>	CRH480A CRH480B CRH480C	<b>Quantity:</b>	20 µg 100 µg 1.0 mg
<b>Alternate Names:</b>	Bone morphogenetic protein 2, BMP-2, Bone morphogenetic protein 2A, BMP-2A		
<b>Description:</b>	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.		
<b>UniProt ID:</b>	P12643		
<b>Accession Number:</b>	NP_001191.1		
<b>Protein Construction:</b>	A DNA sequence encoding the mature form of human BMP-2 (Gln283-Arg396) was expressed. <b>The mature form sequences of human, mouse, rat, rhesus and canine BMP-2 are identical.</b>		
<b>Source:</b>	E. coli		
<b>Formulation:</b>	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.		
<b>Molecular Weight:</b>	The recombinant human BMP-2 monomer consists of 115 amino acids and has a predicted molecular mass of 13 kDa.		
<b>Purity:</b>	> 95 % as determined by SDS-PAGE		
<b>Biological Activity:</b>	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.		
<b>Predicted N-terminal:</b>	Met		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> 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. <b>DO NOT VORTEX.</b> Allow several minutes for complete reconstitution.		
<b>Storage &amp; Stability:</b>	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. <b>Avoid repeated freeze-thaw cycles.</b>		



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## SDS-PAGE



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