


## Rat BMP-2 protein

Cat #: PRP120126

Size: 20µg/100µg/1mg

### Product Information

	<b>Product Name:</b> Rat BMP-2 protein		
<b>REF</b>	<b>Catalog Number:</b> PRP120126	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> > 95 % as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> E. coli
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** 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.

**Sequence:** Amino acid sequence derived from mature form of human BMP2 (NP\_001191.1) (Gln283-Arg396) was expressed. The mature form sequences of human, mouse, rat, rhesus and canine BMP2 are identical.

**Protein length:** The recombinant human BMP2 monomer consists of 115 amino acids and has a predicted molecular mass of 13 kDa.

**Formulation:** Lyophilized from sterile 30 % CAN, 0.1 % TFA, pH 2.9.

**Storage Instructions:** Lyophilized Rat BMP-2 protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage notes:** Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Rat BMP-2 protein in sterile ddH<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

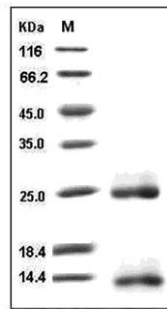


Fig. SDS-PAGE analysis of Rat BMP-2 protein.

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