

BMP2

Recombinant Human Bone Morphogenetic Protein 2

Catalog No.	CRB100A CRB100B CRB100C	Quantity:	2 µg 10 µg 1.0 mg
Alternate Names:	BMP-2, rHuBMP-2, BMP2A, BDA		
Description:	Bone Morphogenetic Protein 2 is a member of the transforming growth factor-beta (TGFB) superfamily. The encoded pre/pro-protein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. Mature BMP-2 forms disulfide linked heterodimers with BMP-7. Both homo and heterodimers induce bone and cartilage formation. BMP-2 is expressed in a variety of tissues including lung, spleen, brain, liver, prostate, ovary and small intestine. BMP-2 also promotes the maintenance and repair of colonic epithelium, suppresses neuronal dopamine production, and is required for cardiac contractility.		
Gene ID:	650		
Protein Accession No:	P12643		
Source:	Chinese hamster ovary (CHO) cell line		
Molecular Weight:	~ 26 kDa, a homodimeric protein consisting of two 114 amino acid glycosylated polypeptide chains.		
Formulation:	Lyophilized from 0.2 µm-filtered concentrated solution in 2.5% Glycine, 0.5% Sucrose, 0.01% Tween® 80, and 5mM Glutamic Acid, pH 4.5.		
Purity:	>90% by SDS-PAGE analysis		
Endotoxin Level:	<1 EU/µg as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to the standard. The ED ₅₀ determined by inducing alkaline phosphatase production of mouse ATDC5 cells is < 200 ng/ml.		
Reconstitution:	Centrifuge vial prior to opening. Reconstitute in 4 mM HCl to a concentration of 0.1 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriately buffered solutions.		
Storage & Stability:	The lyophilized protein is stable at 2-8°C. Upon receipt, store desiccated at -20°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application. Avoid repeated freeze/thaw cycles.		

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