

BMP7

Recombinant Human BMP7

Catalog No.	CRB136A CRB136B CRB136C	Quantity:	2 µg 10 µg 1 mg
Alternate Names:	Osteogenic Protein 1, BMP-7		
Description:	The mature recombinant BMP-7 generated by the proteolytic removal of the signal peptide and propeptide contains 139 amino acid residues.		
Gene ID:	655		
Source:	CHO cells		
Molecular Weight:	The glycosylation of BMP-7 increases the molecular mass and the glycosylated proteins migrate as 25 ~ 40 kDa in SDS-PAGE under non-reducing conditions.		
Formulation:	Lyophilized from a sterile solution containing 1% sucrose + 1.2% mannitol + 20 mM glycine + 0.005% Tween 20, pH 4.		
Purity:	>97% by RP-HPLC and SDS-PAGE		
Endotoxin Level:	< 0.1 ng/µg		
Biological Activity:	Measured in alkaline phosphatase activity assay using MC3T3-E1 cells. The ED50 for this effect is < 100 ng/mL.		
Reconstitution:	Centrifuge vial prior to opening. Reconstitute the lyophilized Bone Morphogenetic Protein-7 in 1 ml sterile/endotoxin free water.		
Storage & Stability:	Lyophilized BMP-7 although stable at room temperature for 3 weeks, should be stored desiccated below -20°C. Upon reconstitution BMP 7 Human should be stored at 2-4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze-thaw cycles.		
Background:	The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis <i>in vivo</i> in an extraskeletal site. Based on its expression early in embryogenesis, the BMP encoded by this gene has a proposed role in early development. In addition, the fact that this BMP is closely related to BMP5 and BMP7 has lead to speculation of possible bone inductive activity.		

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