

Catalog Number: HZ-1128

Data Sheet



Animal Component-Free Human cell expressed

Tag-Free

Endotoxin Free

1SC

Product Description				
Animal-free Recombinant Human BMP-2 is expressed from human 293 cells as a disulfide linked homodimeric glycoprotein with an apparent molecular mass of 28 kDa. This cytokine is produced in a serum-free, chemically defined media. Production in human 293 cells offers authentic glycosylation, contributing to stability in cell growth media and other applications. BMPs (Bone Morphogenetic Proteins) belong to the TGF-beta superfamily of structurally related signaling proteins. BMP-2 is a potent osteoinductive cytokine, capable of inducing bone and cartilage formation in association with osteoconductive carriers such as collagen and synthetic hydroxyapatite.				
Alternative Names	mative Names BMP 2, BMP 2A, BMP 2, BMP-2, BMP-2, bone morphogenetic protein 2, Bone morphogenetic protein 2A			
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived BMP-2 protein			
Species Reactivity	Species Reactivity human,mouse,rat			

Specifications					
Test	Method	Specification			
Activity (EC50)	Dose-dependent induction of alkaline phosphatase production in the ATDC-5 cell line (mouse chondrogenic cell line)	7.5-37.5 ng/mL			
Molecular Mass	SDS-PAGE	17 kDa reduced, 28 kDa non-reduced, homodimer, glycosylated			
Purity	SDS-PAGE	>95%			
Endotoxin	LAL	<1 EU/µg			



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Preparation				
Shipping Temperature	ambient temperature			
Formulation	ion 2x PBS + 6% Ethanol, See Certificate of Analysis for details			
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile 4 mM HCl containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.			

	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
Stability and Storage	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
		Avoid repeated freeze-thaw cycles.	

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