

Catalog Number: HZ-1128

Data Sheet

Tag-Free



HumanKine® BMP-2 (Recombinant Human)

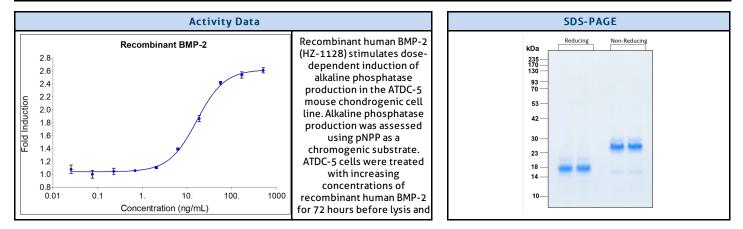
Animal Component-Free

Human cell expressed

Endotoxin Free

Product DescriptionAnimal-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 NamesBMP 2, BMP 2A, BMP-2, BMP-2, BMP-2, BMP-2A, bone morphogenetic protein 2, Bone morphogenetic protein 2A
SourceSourceHuman Embryonic Kidney cells (HEK293). HEK293-derived BMP-2 proteinSpecies Reactivityhuman,mouse,rat

Specifications					
Test	Method	Specification			
Activity	Dose-dependent induction of alkaline phosphatase production in the ATDC-5 cell line (mouse chondrogenic cell line)	7.5-37.5 ng/mL EC50			
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	e ambient temperature			
Formulation	Formulation 2x PBS + 6% Ethanol, See Certificate of Analysis for details			
Reconstitution Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 4 mM HCl containing 0.: endotoxin-free recombinant human serum albumin (HSA).				

	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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