

Catalog Number: HZ-1229

Data Sheet



HumanKine® recombinant human BMP-7 protein

Animal Component-Free Human cell expressed

Tag-Free

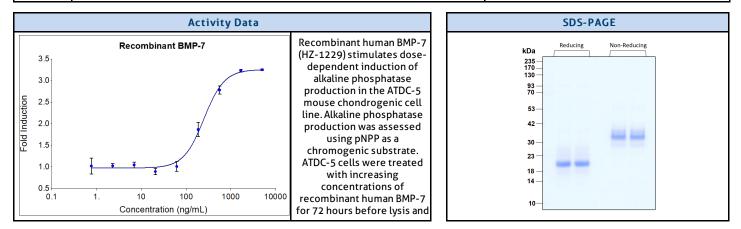
Endotoxin Free

Product Description

Animal-free Recombinant Human BMP-7 is expressed in human 293 cells as a disulfide linked homodimeric glycoprotein with an apparent molecular mass of 29 kDa. This cytokine is produced in a serum-free, chemically defined media. Recombinant Human BMP-7 is a homodimeric glycoprotein consisting of two 117 amino acid subunits, which correspond to amino acid residues 315 to 431 of the full-length BMP-7 precursor. The protein encoded by this gene is a member of the TGF-beta superfamily. Like other members of the Bone Morphogenetic Protein family of proteins, it plays a key role in the transformation of mesenchymal cells into bone and cartilage.

	Alternative Names	BMP 7, BMP7, BMP-7, bone morphogenetic protein 7, Eptotermin alfa, HZ1229, OP 1, OP1, Osteogenic protein 1	
Source Human Embryonic Kidney cells (HEK293). HEK293-derived BMP-7 pr		Human Embryonic Kidney cells (HEK293). HEK293-derived BMP-7 protein	
	Species Reactivity	human,mouse	

	Specifications			
Test	Method	Specification		
Activity (EC50)	Dose-dependent induction of alkaline phosphatase production in the ATDC-5 cell line (mouse chondrogenic cell line)	50-275 ng/mL		
Molecular Mass	SDS-PAGE	20 kDa reduced, 32 to 36 kDa non-reduced, homodimer, glycosylated		
Purity	SDS-PAGE	>95%		
Endotoxin	LAL	<1 EU/µg		



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	Preparation		
Shipping Temperature	ambient temperature		
Formulation	10mM Acetic Acid		
Reconstitution	n Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in 10mM Acetic Acid cont 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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