

Catalog Number: HZ-1045

Data Sheet



HumanKine® recombinant human BMP-4 protein

Animal Component-Free

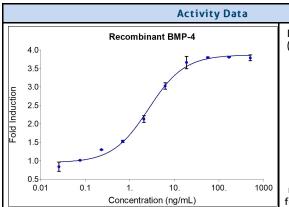
Human cell expressed

Tag-Free

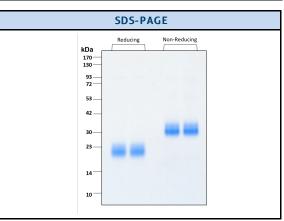
Endotoxin Free

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Product Description					
Animal-free Recombinant Human BMP-4 is expressed in human 293 cells as a disulfide linked homodimeric glycoprotein with an apparent molecular mass of 34 kDa. This cytokine is produced in a serum-free, chemically defined media.					
Alternative Names	es BMP 2B, BMP 4, BMP2B, BMP2B1, BMP4, BMP-4, Bone morphogenetic protein 2B, bone morphogenetic protein 4, DVR4, MCOPS6, ZYME				
Source	Source Human Embryonic Kidney cells (HEK293). HEK293-derived BMP-4 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)	1.5-9 ng/mL			
Molecular Mass	SDS-PAGE	20 to 24 kDa reduced, 32 to 38 kDa non-reduced, homodimer, glycosylated			
Purity	SDS-PAGE	>95%			
Endotoxin	LAL	<1 EU/µg			



Recombinant human BMP-4
(HZ-1045) stimulates dosedependent induction of
alkaline phosphatase
production in the ATDC-5
mouse chondrogenic cell
line. Alkaline phosphatase
production was assessed
using pNPP as a
chromogenic substrate.
ATDC-5 cells were treated
with increasing
concentrations of
recombinant human BMP-4
for 72 hours before lysis and



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Data Sheet Version #: 1

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Preparation				
Shipping Temperature 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 to 0.2 mg/mL in sterile 4 mM HCl of 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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