

Datasheet for ABIN2666465 **BMP6 Protein (AA 344-460)**



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10 μg
BMP6
AA 344-460
Human
HEK-293 Cells
Recombinant
Active
Multiplex Assay (MA)
> 95 % , as determined by Coomassie stained SDS-PAGE and HPLC analysis.
Less than 0.1 ng per μg of protein.
Less than 0.1 ng per μg of protein.
Less than 0.1 ng per μg of protein. BMP6

	activin receptor, and activin receptor-like kinase I (ALK-1). Three type II receptors have also		
	been recognized: type II BMP receptor and type II and IIB activin receptors. Human recombinant		
	BMP-6 can restore bone in animal models of osteoporosis. BMP-6 induces bone formation		
	through IGF-I and EGF pathways in a murine model of osteopenia and in human osteoblasts.		
	BMP-6 has been reported to have an antiproliferative effect on B, T cells, and macrophages.		
	Also, BMP-6 induced expression of pro-inflammatory inducible nitric oxide synthase (iNOS),		
	TNF- α and IL-1 β in macrophages. In addition, BMP-6 is a key endogenous regulator of hepcidin		
	expression and iron metabolism in vivo. In fact, BMP-6 null mice have a phenotype that		
	resembles mouse models of juvenile hemochromatosis (an iron overload disorder caused by		
	mutations in the genes encoding the major iron regulatory hormone hepcidin and hemojuvelin).		
Molecular Weight:	The 117 amino acid recombinant protein has a predicted molecular mass of approximately 13		
	kDa. Recombinant human BMP-6 is a 26.2 kDa homodimeric glycoprotein. The predicted N-		
	terminal amino acid is Val.		
Pathways:	Regulation of Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process		
Application Details			
Application Notes:	Optimal working dilution should be determined by the investigator.		
Comment:	Biological activity: BMP-6 induces alkaline phosphatase production on ATDC-5 cells. The ED50		
	= $0.03 - 0.06 \mu g/ml$, corresponding to a specific activity of $1.6 - 3.3 x104 unit/mg$.		
Restrictions:	For Research Use only		
Handling			
Format:	Lyophilized		
Reconstitution:	For maximum results, quick spin vial prior to opening. Reconstitute in water to a concentration		
	of 0.1-1.0 mg/mL. Do not vortex. It is recommended to further dilute in a buffer containing a		
	carrier protein such as 0.1 % BSA and store working aliquots at -20 °C to -80 °C.		
Buffer:	Lyophilized		
Handling Advice:	Avoid repeated freeze/thaw cycles.		
Storage:	-20 °C		
Storage Comment:	Unopened vial can be stored at -20°C or -70°C.		