

Product datasheet for **TP723041**

BMP3 (NM_001201) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human bone morphogenetic protein 3 (BMP3).
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MQWIEPRNCA RRYLKVDFAD IGWSEWIISP KSFDAYYCSG ACQFPMPKSL KPSNHATIQS IVRAVGVVPG IPEPCCVPEK MSSLSILFFD ENKNVVLKVY PNMTVESAC R
Tag:	Tag Free
Predicted MW:	13 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 µM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	Determined by its ability to inhibit BMP-2-induced alkaline phosphatase production by ATDC-5 cells.
Endotoxin:	Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_001192
Locus ID:	651
UniProt ID:	P12645
RefSeq Size:	1774
Cytogenetics:	4q21.21
RefSeq ORF:	1416
Synonyms:	BMP-3A



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Summary:

This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein suppresses osteoblast differentiation, and negatively regulates bone density, by modulating TGF-beta receptor availability to other ligands. [provided by RefSeq, Jul 2016]

Protein Families:

Druggable Genome, Secreted Protein