

Product datasheet for **TP728158**

Recombinant BMP-4 (Bone morphogenetic protein-4), Human

Product data:

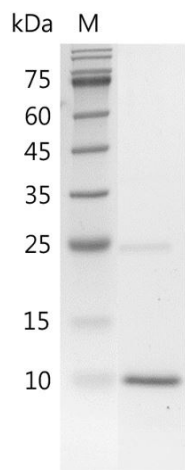
Product Type:	Recombinant Proteins
Description:	Recombinant BMP-4 (Bone morphogenetic protein-4), Human
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MKKNKNCRRHSLYVDFSDVGWNDWIVAPPGYQAFYCHGDCPFPLADHLNSTNHAIVQTLVNSVNSSIPK ACCVPTELSAISMLYLDEYDKVVLKKNYQEMVVEGCGCR with polyhistidine tag at the C-terminus.
Tag:	His Tag (C-term)
Predicted MW:	The protein has a calculated MW of 12.88 kDa. The protein migrates as 12 kDa under reducing condition (SDS-PAGE analysis).
Purity:	>95% as determined by SDS-PAGE.
Buffer:	The protein was lyophilized from a 0.2 µm filtered solution containing 20 mM sodium carbonate, pH 9.0.
Bioactivity:	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED ₅₀ for this effect is <0.58 ng/mL.
Endotoxin:	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution Method:	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
Applications:	Cell culture
Storage:	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
UniProt ID:	P12644
Synonyms:	BMP-2B, DVR4



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Summary:

Bone Morphogenetic Protein-4 (BMP-4) is an extracellular multifunctional signaling cytokine that is also a member of the TGF- β family. BMP-4 can bind with the TGF- β receptor and trigger SMAD protein signal transduction. BMP-4 has a significant expression in the prostate, it plays a vital role in the development of mesoderm into bones and the development of the epidermis and Dorsal-Ventral axis.

Product images:

SDS- PAGE analysis of recombinant human BMP-4