

OriGene Technologies, Inc.

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Product datasheet for TP728161

Recombinant BMP-7 (Bone morphogenetic protein-7), Human

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant BMP-7 (Bone morphogenetic protein-7), Human
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MANVAENSSSDQRQACKKHELYVSFRDLGWQDWIIAPEGYAAYYCEGECAFPLNSYMNATNHAIVQTLV HFINPETVPKPCCAPTQLNAISVLYFDDSSNVILKKYRNMVVRACGCH with polyhistidine tag at the C- terminus.
Tag:	His Tag (C-term)
Predicted MW:	The protein has a calculated MW of 14.00 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 μ m filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5.
Bioactivity:	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED₅₀ for this effect is <0.65 µg/mL.
Endotoxin:	<0.1 EU per 1 μ g 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 μ g/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:	<u>P18075</u>
Synonyms:	Osteogenic Protein-1 (OP-1)

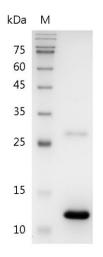


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Summary:Bone Morphogenetic Protein-7 (BMP-7) is an extracellular multifunctional cytokine that is also
a member of the TGF-β family. BMP7 can significantly inhibit TGF-β through binding with TGF-
β receptor and trigger SMAD transcription factors, such as SMAD 1 /5/8. It plays a vital role in
inhibiting the expansion of kidney damage and promoting the differentiation of osteoblasts.

Product images:



SDS- PAGE analysis of recombinant human BMP-7

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