

Product datasheet for TP728161M

OriGene Technologies, Inc.

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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 µm 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 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_2O 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: P18075

Synonyms: Osteogenic Protein-1 (OP-1)

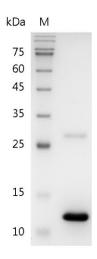




Summary:

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