

Product datasheet for TP728162L

OriGene Technologies, Inc.

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Recombinant BMP-8a (Bone morphogenetic protein-8a), Human

Product data:

Product Type: Recombinant Proteins

Description: Recombinant BMP-8a (Bone morphogenetic protein-8a), Human

Species: Human
Expression Host: E. coli

Expression cDNA Clone

or AA Sequence:

MAVRPLRRRQPKKSNELPQANRLPGIFDDVHGSHGRQVCRRHELYVSFQDLGWLDWVIAPQGYSAYYCE GECSFPLDSCMNATNHAILQSLVHLMKPNAVPKACCAPTKLSATSVLYYDSSNNVILRKHRNMVVKACGC

H with polyhistidine tag at the C-terminus.

Tag: His Tag (C-term)

Predicted MW: The protein has a calculated MW of 16.61 kDa. The protein migrates as 17 kDa under

reducing condition (SDS-PAGE analysis).

Purity: >98% 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 10-19.4 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_2O 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: Q7Z5Y6

Synonyms: BMP-8,OP-2,Osteogenic Protein-2

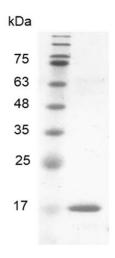




Summary:

Bone Morphogenetic Protein-8 (BMP-8) is an extracellular multifunctional cytokine that is also a member of the TGF- β family. BMP-8 can bind with TGF- β receptor and is involved in SMAD protein signal transduction. In addition, BMP-8 participates in the downregulation of insulin secretion that lets the heat stabilize. Moreover, it participates in ossification and is essential to cartilage and hard bone development.

Product images:



SDS- PAGE analysis of recombinant human BMP-8a