For Research Use Only

Recombinant Human BMP-2

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Antibodies | ELISA kits | Proteins

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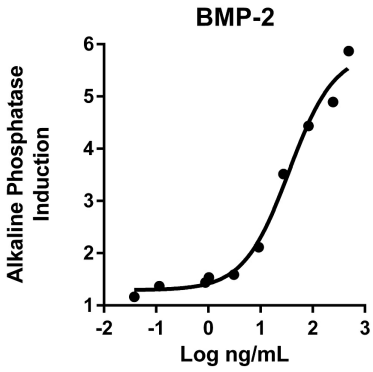
Catalog Number:HZ-1128 HEK293 expressed | Endotoxin-free | Animal-component free

Technical Specifications

Species	Human
Expression	HEK293
Activity	Typically ≤ 60 ng/mL EC50
Purity	>95%
Endotoxin	<1 EU/μg
Molecular Mass	28 kDa, homodimer, glycosylated
Formulation	2x PBS + 6% Ethanol, See Certificate of Analysis for details
Gene ID	650



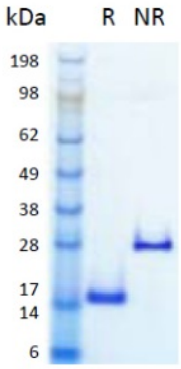
The activity was determined by the dose-dependent induction of alkaline phosphatase production in the ATDC-5 cell line (Mouse chondrogenic cell line) using pNPP as chromogenic substrate.

Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 4 mM HCl containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

Stability and Storage

Lyophilized proteins are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at (4°C) for short term or at (-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.



The protein was resolved by SDS- polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue. R represents reducing conditions and NR represents non-reducing conditions.

Product Description

Animal-free Recombinant Human BMP-2 is expressed from human 293 cells as a disulfide linked homodimeric glycoprotein with an apparent molecular mass of 28 kDa. This cytokine is produced in a serum-free, chemically defined media. Production in human 293 cells offers authentic glycosylation, contributing to stability in cell growth media and other applications. BMPs (Bone Morphogenetic Proteins) belong to the TGF-beta superfamily of structurally related signaling proteins. BMP-2 is a potent osteoinductive cytokine, capable of inducing bone and cartilage formation in association with osteoconductive carriers such as collagen and synthetic hydroxyapatite.

Synonyms

BMP-2A BMP-2, BMP 2, BMP2

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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