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For Research Use Only

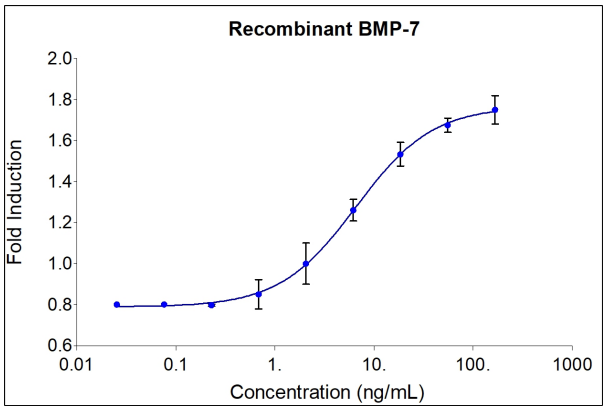
Recombinant Human BMP-7

Catalog Number: HZ-1229

HEK293 expressed | Endotoxin-free | Animal-component free

Technical Specifications

Species	human
Expression	HEK293
Activity	Typically ≤ 100 ng/mL EC50
Purity	>95%
Endotoxin	<1 EU/μg
Molecular Mass	29 kDa, homodimer, glycosylated
Formulation	10mM Acetic Acid
Gene ID	655



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 10mM Acetic Acid containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

Stability and Storage

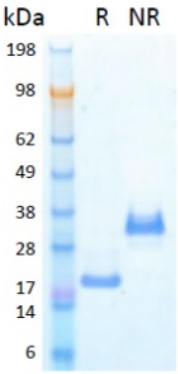
Lyophilized proteins are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at (4°C) for short term or at (-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted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

Product Description

Animal-free Recombinant Human BMP-7 is expressed in human 293 cells as a disulfide linked homodimeric glycoprotein with an apparent molecular mass of 29 kDa. This cytokine is produced in a serum-free, chemically defined media. Recombinant Human BMP-7 is a homodimeric glycoprotein consisting of two 117 amino acid subunits, which correspond to amino acid residues 315 to 431 of the full-length BMP-7 precursor. The protein encoded by this gene is a member of the TGF-beta superfamily. Like other members of the Bone Morphogenetic Protein family of proteins, it plays a key role in the transformation of mesenchymal cells into bone and cartilage.

Synonyms

BMP 7, BMP7, BMP-7, bone morphogenetic protein 7, Eptotermin alfa, HZ1229, OP 1, OP1, Osteogenic protein 1



The protein was resolved by SDS- polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

For technical support and original validation data for this product please contact:

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