HUMANZYME
HUMAN PROTEINS FROM HUMAN CELLS

PRODUCT DATA SHEET

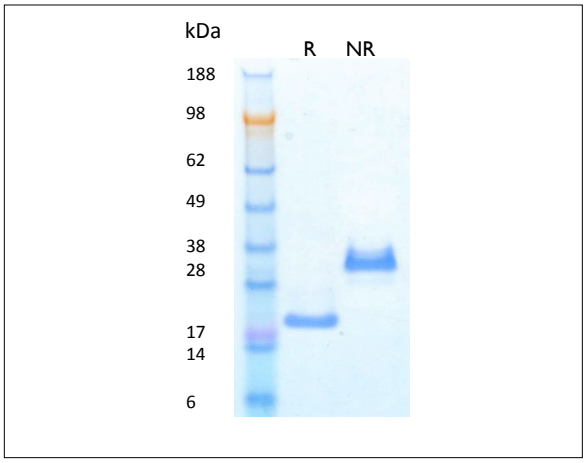
Recombinant Human
BMP-7 (Bone Morphogenetic Protein 7)

Product Description

- Endotoxin-free
- Animal-derived product free
- Available in Bulk
- Lyophilized and Carrier Free (CF)
- Glycosylated disulfide-linked homodimer

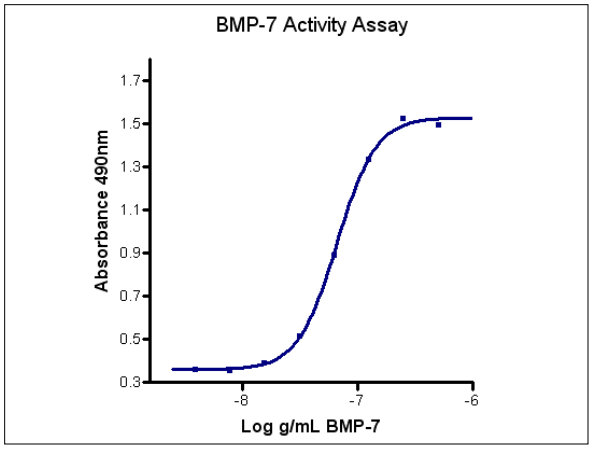
Xeno-free BMP-7 is expressed in human 293 cells as a disulfide linked homodimeric glycoprotein with an apparent molecular mass of 29 kDa. This cytokine is produced in a serum-free, chemically defined media. Recombinant Human BMP-7 is a homodimeric glycoprotein consisting of two 117 amino acid subunits, 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.

XENO™ All HumaXpress® HumanKine™ cytokines are animal-component-free and Xeno-free™



Typical Specifications

Species	Human
Expression	HEK293 Cell Expressed
Activity	Typically ≤ 100 ng/mL EC_{50}
Purity	>95%
Endotoxin	<1 EU/μg
Molecular Mass	29 kDa, homodimer, glycosylated
Formulation	2x PBS + 20% Ethanol



Purity Confirmation

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

Activity Assay

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

Reconstitution Buffer

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

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