

**Recombinant Human  
BMP-4 (Bone Morphogenetic Protein 4)**

Catalog # (Size):    HZ-1045 (10µg)    HZ-1148 (100µg)    HZ-1078 (1000µg)

**Product Description**

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

Xeno-free BMP-4<sup>HuXp</sup> is expressed in human 293 cells as a disulfide linked homodimeric glycoprotein with an apparent molecular mass of 34 kDa. This cytokine is produced in a serum-free, chemically defined media.

**Typical Specifications**

<b>Species</b>	Human
<b>Expression</b>	HEK293 Cell Expressed
<b>Activity</b>	Typically ≤ 20 ng/mL EC <sub>50</sub>
<b>Purity</b>	>95%
<b>Endotoxin</b>	<1 EU/µg
<b>Molecular Mass</b>	34 kDa, homodimer, glycosylated
<b>Formulation</b>	2x PBS + 6% Ethanol

**Purity Confirmation**

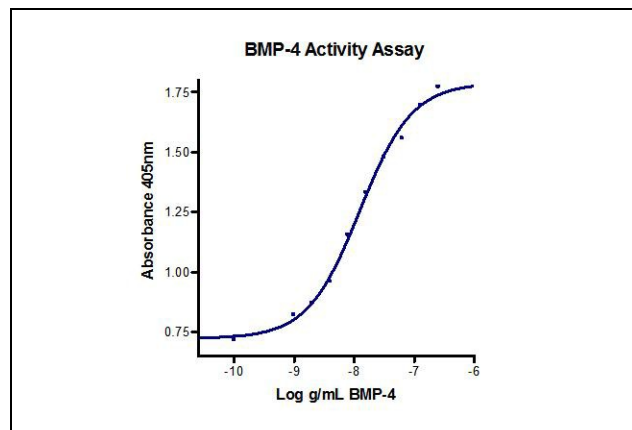
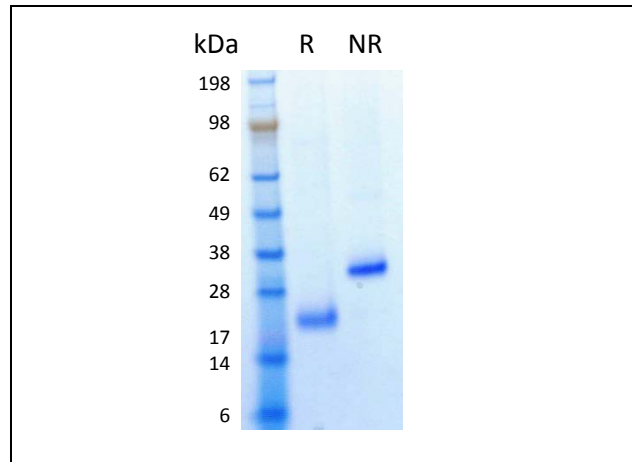
The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

**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).



All HumaXpress<sup>®</sup> HumanKine<sup>™</sup> are animal-component-free and Xeno-free<sup>™</sup>



**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).

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