



# Recombinant Human BMP-2 (Bone Morphogenetic Protein 2)

Catalog # (Size): HZ-1128 (10µg) HZ-1129 (100µg) HZ-1130 (1000µg)

## **Product Description**

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

Xeno-free BMP-2<sup>HuXp</sup> 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.

## **Typical Specifications**

**Species** Human

**Expression** HEK293 Cell Expressed **Activity** Typically ≤ 60 ng/mL EC50

 $\begin{array}{ll} \text{Purity} & >95\% \\ \text{Endotoxin} & <1 \, \text{EU/}\mu\text{g} \end{array}$ 

Molecular Mass 28 kDa, homodimer, glycosylated

**Formulation** 2x PBS + 6% Ethanol

## **Purity Confirmation**

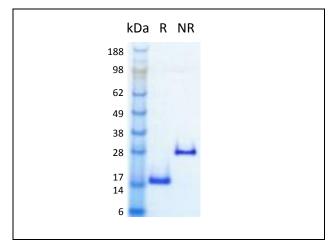
The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

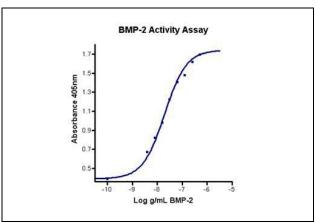
#### **Activity Assay**

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® HumanKine™ are animal-component-free and Xeno-free™





#### **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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