


Recombinant Human BMP-4

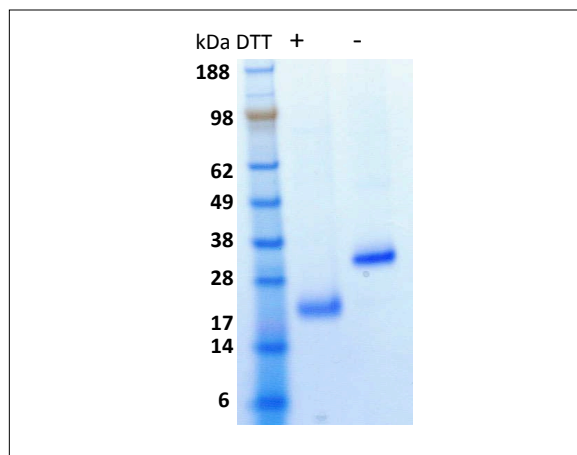
BMP-4 HumaXpress

Product Description

- Endotoxin-free*
- Animal-derived product free
- Available in Bulk
- High Activity
- Glycosylated disulfide-linked homodimer

Xeno-free BMP-4^{HuXp} 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. The activity of the human cell expressed cytokine is typically higher (2 to 10ng/mL ED50) than the activity reported for the cytokine expressed in mouse myeloma cells (20 ng/mL ED50) in a bioassay using the ATDC-5 mouse chondrogenic cell line to measure alkaline phosphatase production in response to BMP-4.

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



Typical Specifications

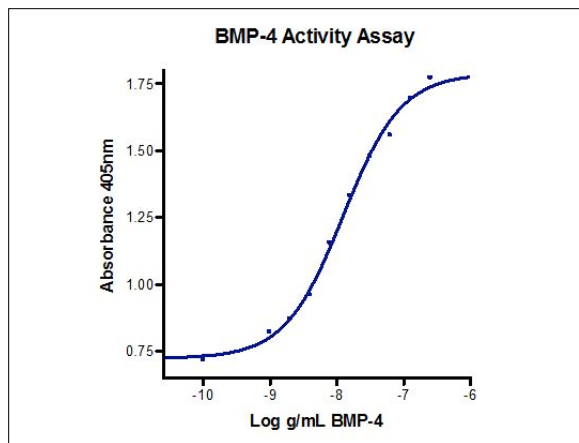
Species	Human
Expression	Human Cell Expressed
Activity	2 to 10 ng/mL ED50
Purity	>95%
Endotoxin	Endotoxin-free*
Molecular Mass	34 kDa, homodimer, glycosylated

Purity Confirmation

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

Activity Assay

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



* Endotoxin-free ... <1 EU/μg
All HumanKine™ cytokines are expressed in the HumaXpress® human cell expression system and intrinsically have low endotoxin levels.

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