BMP-4 (human), (recombinant)

Bone morphogenetic protein 4 (BMP-4) is a member of the bone morphogenetic growth factor family (BMP) and functions as a critical component in the culture and differentiation of stem cells. Active BMP-4 forms a homodimer or a heterodimer with related BMPs. BMP-4 is integral for the differentiation of mesoderm and ectoderm from pluripotent stem cells (iPSCs and ESCs) in stem cell cultures. BMP-4 is also used in culturing cardiomyocytes, early hematopoietic cells, hepatocytes, bone, cartilage, adipocytes, and lung cells, as well as inhibiting early neuronal differentiation.

Citations: 1 View Online »

Ordering Information

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ENZ-PRT259-0020	20µg

Manuals, SDS & CofA

View Online »

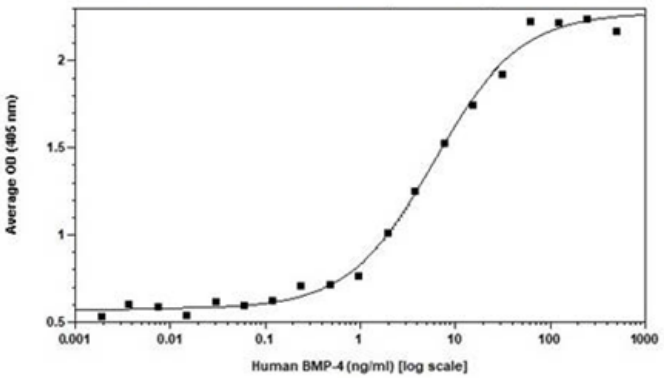

Figure 1. Human BMP-4 induced alkaline phosphatase activity in ATDC-5 cells.

Handling & Storage

Handling	Avoid freeze/thaw cycles. After reconstitution, prepare aliquots and store at -80°C. For long term storage, it is recommended to dilute to working aliquots in a 0.1% BSA solution.
Long Term Storage	-80°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Bone morphogenetic protein 4
Endotoxin Content	≤ 1 EU/µg
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA).
MW	Dimer, 13.1/26.2 kDa (116/232 amino acids).
Purity	≥95% (SDS-PAGE)
Reconstitution	Reconstitute in sterile water at 0.1 mg/mL.
Source	Produced in genetically modified CHO cells.
UniProt ID	P12644

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