Recombinant Human/Mouse/Rat BMP-4 Protein

Catalog No.: RP02512

Sequence Information

Species
Human

Gene ID
652

Swiss Prot
P12644

Tags
C-His

Synonyms
BMP2B, BMP2B1, MCOPS6, OFC11, ZYME,BMP4,BMP2B1, MCOPS6,OFC11,ZYME

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MWObserved MW

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of 20 mM sodium carbonate, pH 9.0.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Bone morphogenetic protein 4 is a protein that in humans is encoded by BMP4 gene. BMP4 is found on chromosome 14q22-q23. BMP4 is a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. BMP4 is highly conserved evolutionarily. BMP4 is found in early embryonic development in the ventral marginal zone and in the eye, heart blood and otic vesicle.

Basic Information

Description
Recombinant Human/Mouse/Rat BMP-4 Protein is produced by Escherichia coli expression system. The target protein is expressed with sequence of Human BMP-4 fused with polyhistidine tag at the C-terminus

Activity
Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells.The ED_{50} for this effect is 30.3-121.2 ng/mL, corresponding to a specific activity of 8.25×10^3~3.30×10^4 units/mg.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

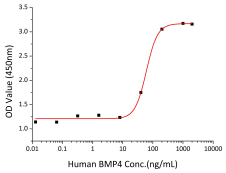
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Validation Data



Recombinant Human/Mouse/Rat BMP-4 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human/Mouse/Rat BMP-4 induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells.The ED_{50} for this effect is 30.3-121.2 ng/mL, corresponding to a specific activity of 8.25×10^{3}~3.30×10^{4} units/mg.

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