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32-12019: Human Bone Morphogenetic Protein-2

Gene : BMP2 **Gene ID :** 650 **Uniprot ID :** P12643

Alternative Name: Â BMP-2A, BMP2AÂ ÂÂÂÂÂÂÂÂÂÂÂÂÂÂÂÂÂÂ

Description

Source: Genetically modified E.coli.

Predicted MW: Dimer, 13.0/26.1 kDa (115/230 aa)

Bone morphogenetic protein 2 (BMP-2) is a member of the bone morphogenetic protein (BMP) family and functions as a potent inducer of bone and cartilage development. BMP proteins are synthesized as large precursor molecules which are cleaved by proteolytic enzymes. Active BMP-2 consists of forming a homodimer or a heterodimer with a related BMP, such as BMP-7. BMP-2 signals through type I and type II receptor tyrosine kinases in conjuction with SMAD proteins to directly promote osteoblast differentiation. BMP-2 is also important during cardiac development and supports epicardial cell migration.

Product Info

Amount: 10 μg / 100 μg

Purification: Reducing and Non-Reducing SDS PAGE at >= 95%

Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic

Content: Acid (TFA)

Sterile water at 0.1 mg/mL

Storage condition : Store at -20°C

Amino Acid: MQAKHKQRKR LKSSCKRHPL YVDFSDVGWN DWIVAPPGYH AFYCHGECPF PLADHLNSTN

HAIVQTLVNS VNSKIPKACC VPTELSAISM LYLDENEKVV LKNYQDMVVE GCGCR

Application Note

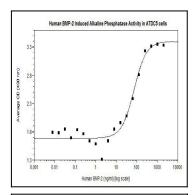
Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.

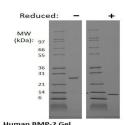
Biological Activity was determined by Alkaline phosphatase activity induced in ATDC-5 cells at <=250 ng/mL; >=4.0 x 10^3 units/mg. Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80° C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vialed to compensate for this loss.



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Human BMP-2 Gel
1 ug in each lane (-) non-reducing conditions
and (+) reducing conditions in a 4-20% TrisGlycine gel, stained with Coomassie Blue.
Human BMP-2 has a predicted MW of 26.0
kDa as a homodimer (with each subunit
having a MW of 13.0 kDa).