9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

BMP 2 Protein Human

Bone Morphogenetic Protein-2 Human Recombinant
CYK0081

Product Overview

Name	BMP 2 Protein Human
Description	
Bone Morphogenetic Protein-2 Human Recombinant	
Accession (Primary)	P12643
Synonyms	
BMP-2, BMP2A.	
Introduction	
BMP2 belongs to the transforming growth factor-beta (TGFB) superfamily. Bone morphogenic protein induces bone formation. BMP2 is a candidate gene for the autosomal dominant disease of fibrodysplasia (myositis) ossificans progressiva.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
BMP2 was lyophilized from a concentrated (1mg/ml) sterile solution containing 10mM sodium citrate pH=3.5.	
Stability	
Lyophilized Bone Morphogenetic Protein-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BMP2 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
MQAKHKQRKR LKSSCKRHPL YVDFSDVGWN DWIVAPPGYH AFYCHGECPF PLADHLNSTN HAIVQTLVNS VNSKIPKACC VPTELSAISM LYLDENEKVV LKNYQDMVVE GCGCR.	
Biological Activity	
The ED 50 as determined by its ability to induce alkaline phosphatase production by ATDC-5 cells is 0.5-1.0 µg/ml.	

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Solubility

It is recommended to reconstitute the lyophilized Bone Morphogenetic Protein-2 in sterile 20mM AcOH (acetic Acid) not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

References

Title :β-Catenin Signaling Pathway Is Crucial for Bone Morphogenetic Protein 2 to Induce New Bone Formation. Publication :First Published on November 3, 2006, doi: 10.1074/jbc.M602700200 January 5, 2007 The Journal of Biological Chemistry, 282, 526-533. Link : BMP 2 prospec publication

Protein content

Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 1.4 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of BMP-2 as a Reference Standard.

Precautions

BMP 2 Protein Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P12643)