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

BMP4 Human, CHO

Bone Morphogenetic protein-4 Active Human Recombinant, CHO
CYK0091

Product Overview

Name	BMP4 Human, CHO
Description	
Bone Morphogenetic protein-4 Active Human Recombinant, CHO	
Accession (Primary)	P12644
Synonyms	
BMP4, ZYME, BMP2B, BMP2B1.	
Introduction	
The protein encoded by this gene 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. Bone morphogenetic proteins were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. This particular family member plays an important role in the onset of endochondral bone formation in humans, and a reduction in expression has been associated with a variety of bone diseases, including the heritable disorder Fibrodysplasia Ossificans Progressiva. Alternative splicing in the 5' untranslated region of this gene has been described and three variants are described, all encoding an identical protein.	
Source	
CHO cells.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a sterile (0.2 μm) filtered solution containing 0.1% Trifluoroacetic Acid (TFA).	
Stability	
Lyophilized BMP4 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BMP4 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	

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SPKHHSQRAR KKNKNCRRHS LYVDFSDVGW NDWIVAPPGY QAFYCHGDCP FPLADHLNST NHAI VQT LVN SVNSSIPKAC CVPTELSAIS MLYLDEYDKV VLKNYQEMVV EGCGCR.

Biological Activity

The ED 50 , as calculated by Alkaline phosphatase activity induced in ATDC-5 cells is 15ng/ml corresponding to a specific activity which is 6.7 x 10^4 units/mg.

Solubility

It is recommended to reconstitute the lyophilized BMP4 in sterile 10mM HCl at a concentration of 0.1 mg/ml, which can then be further diluted to other aqueous solutions.

Precautions

BMP4 Human, CHO is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P12644)