Datasheet for ABIN987782

BMP4 Protein

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Overview

Quantity:	1 mg
Target:	BMP4
Origin:	Human
Source:	Escherichia coli (E. coli)

Product Details

Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	Level Less than 1EU/μg of rHuBMP-4 as determined by LAL method

Target Details

Target:	BMP4
Alternative Name:	Bone Morphogenetic Protein-4 (BMP-4) (BMP4 Products)
Background:	Human BMP-4 is one of at least 15 structurally and functionally related BMPs, which are members of the transforming growth factor beta (TGF-beta) superfamily. BMPs were originally identified as protein regulators of cartilage and bone formation. However, they havesince been shown to be involved in embryogenesis and morphogenesis of various tissues and organs. BMPs have also been shown to regulate the growth, differentiation, chemotaxis and apoptosis of various cell types, including mesenchymal cells, epithelial cells, hematopoietic cells and neuronal cells. BMP-4 is synthesized as large precursor molecules which are cleaved by proteolytic enzymes. The active form can consist of a dimer of two identical proteins or a heterodimer of two related bone morphogenetic proteins. Synonym: Bone Morphogenetic Protein-4 (BMP-4), Human. Formulation: Lyophilized from a 0.2μm filtered concentrated

Target Details

	solution in 20mM Na2CO3 buffer, pH 9.0.
Molecular Weight:	Approximately 13.0 kDa, a monomeric, non-glycosylated polypeptide chain containing 116 amino acids.
Pathways:	Steroid Hormone Mediated Signaling Pathway, Regulation of Muscle Cell Differentiation, Tube Formation, Skeletal Muscle Fiber Development

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20 °C. Further dilutions should be made in appropriate buffered solutions. Applications 1. Molecular standard (Western, ELISA) in studying secreted BMP-4,2. Preparing antibodies for BMP-4 monomer, 3. Molecule standard in detecting secreted BMP-4 in reduced SDS-PAGE.
Storage:	4 °C