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## Product Data Sheet

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Product Name: BMP3 Human  
 Cat. No.: GP20101  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Bone Morphogenetic Protein 3; Osteogenin; Bone Morphogenetic Protein 3 (Osteogenic); Bone Morphogenetic Protein 3A; BMP-3A; BMP-3; Bone Morphogenetic Protein-3; BMP3A; BMP3.		
Amino Acid Sequence	QWIEPRNCAR RYLKVDFAI GWSEWIISPK SFDAYYCSGA CQFPMPKSLK PSNHATIQSI VRAVGVVPGI PEPCCVPEKM SLSILFFDE NKNVVLKVYP NMTVESACR.		
Solubility	It is recommended to reconstitute the lyophilized BMP3 in sterile 4mM HCl not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	BMP-3 protein was lyophilized from a 0.2µm filtered concentrated solution in 30% Acetonitrile and 0.1% TFA.		

### Introduction

Bone Morphogenetic Protein 3 (BMP3) is one of the BMPs, some of which are members of the TGF-beta superfamily (BMP2-7). There are more than 13 BMPs, which are involved in inducing cartilage and bone formation, embryogenesis and morphogenesis of various tissues and organs. In addition, BMPs regulate the growth, differentiation, chemotaxis, and apoptosis of various cell types. Akin to most other TGF-beta family proteins, BMPs are extremely conserved across animal species. At the amino acid sequence level, mature human and rat BMP3 are 98% identical.

### Biological Activity

The ED50 as determined by its ability to inhibit BMP-2-induced activity in murine MC3T3-E1 cells.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Stability

Lyophilized BMP3 although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution BMP-3 should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

BMP3 Human Recombinant produced in E.coli is a non-glycosylated disulfide linked homodimer containing 2 chains of 110 amino acids and having a molecular mass of 24.8kDa. The BMP-3 is purified by proprietary chromatographic techniques.

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