
Product Data Sheet

Product Name: BMP 5 Human
 Cat. No.: GP20105
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Bone morphogenetic protein 5; BMP-5; BMP5; MGC34244.		
Amino Acid Sequence	MAANKRKNQN RNKSSSHQDS SRMSSVGDYN TSEQKQACKK HELYVSFRDL GWQDWIIAPE GYAAFYCDGE CSFPLNAHMN ATNHAIVQTL VHLMPDHVP KPCCAPTKLN AISVLYFDDS SNVILKKYRN MVVRSCGCH.		
Formulation	The BMP-5 solution contains 10mM Sodium Citrate buffer (pH3.5) and 10% Glycerol.		

Introduction

BMP5 belongs to the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. This superfamily is comprised of large families of growth and differentiation factors. Bone morphogenetic proteins were initially identified by their ability of demineralizing bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. BMP5 is an essential signaling molecule within the trabecular meshwork and optic nerve head, and may play a potential role in glaucoma pathogenesis. It was shown that BMP-5 increases the levels of osteopontin, BMP-2, alkaline phosphatase and core binding factor alpha 1 mRNAs in human periodontal (HPL) ligament cells. The BMP5 protein is expressed in normal synovial tissue and reduced in osteoarthritis and rheumatoid arthritis. BMP5 may have a role in certain cancers given that it is differentially regulated during the formation of different tumors.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

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

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Background

BMP-5 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 139 amino acids (317-454 a.a.) and having a total molecular mass of 15.7 kDa. BMP-5 is purified by proprietary chromatographic techniques.

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