
Product Data Sheet

Product Name: BMP 6 Human, HEK
 Cat. No.: GP20107
 Batch No.: 1

Product Data

Purity	>98%	Source	HEK.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Bone morphogenetic protein 6; BMP-6; VG-1-related protein; VG-1-R; VGR-1; BMP6; VGR; VGR1.		
Amino Acid Sequence	VSSASDYNSS ELKTACRKHE LYVSFQDLGW QDWIIAPKGY AANYCDGEC FPLNAHMNATNHAIVQTLVH LMNPEYVPKP CCAPTCLNAI SVLYFDDNSN VILKKYRNMV VRACGCH.		
Solubility	It is recommended to reconstitute the lyophilized BMP-6 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The BMP-6 was lyophilized from 10mM Tris, pH 9.0 .		

Introduction

The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules, which can induce ectopic bone growth. Various BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were initially identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based upon its expression early in embryogenesis, BMP6 has a suggested role in early development. Moreover, the fact that the BMP6 is closely related to BMP5 and BMP7 leads to an assumption of possible bone inductive activity.

Biological Activity

The ED50 as determined by its ability to induce alkaline phosphatase production in the ATDC-5 cell line is typically 0.03-0.06 μg/ml.

Stability

Lyophilized BMP-6 although stable at room temperature for 3 weeks, should be stored

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

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desiccated below -18°C . Upon reconstitution BMP-6 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.

Background

BMP-6 Human Recombinant produced in HEK cells is a glycosylated disulfide linked homodimer of two 139 amino acid polypeptide chains; each monomer is expressed as the C-terminal part of a precursor polypeptide, which contains a 20 amino acid signal peptide and a 354 amino acid propeptide. The BMP-6 which has a total molecular weight of 26.2kDa is purified by proprietary chromatographic techniques.

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