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## Product Data Sheet

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Product Name: BMP 2 Human, HEK  
Cat. No.: GP20099  
Batch No.: 1

### Product Data

Purity >98% Source HEK.

Physical Appearance solid Shipping Condition Shipped at Room temp.

Synonyms BMP-2; BMP2A.

Amino Acid Sequence QAKHKQRKRLKSSCKRHPLYVDFSDVGWNDWIVAPPGYHAFYCHGECPPFLADHLNST  
NHAIVQTLVNSVNSKIPKACCVPTELSAISMLYLDENEKVVLLKNYQDMVVEGCGCR.

Solubility It is recommended to reconstitute the lyophilized BMP-2 in sterile 4mM HCl containing 0.1% endotoxin-free recombinant HSA.

Formulation The BMP2 was lyophilized from 0.67mg/ml in 2xPBS + 6% ethanol.

### Introduction

BMP2 belongs to the transforming growth factor-beta (TGFB) superfamily. Bone morphogenic protein induces bone formation. BMP2 is a candidate gene for the autosomal dominant disease of fibrodysplasia (myositis) ossificans progressiva.

### Biological Activity

The specific activity as determined by the dose dependent induction of alkaline phosphatase production in the ATDC-5 cell line (Mouse chondrogenic cell line) was found to be 6.53ng/ml.

### Stability

Lyophilized BMP2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution BMP-2 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-2 Human Recombinant produced in HEK cells is a glycosylated disulfide-linked

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

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homodimer, having a molecular weight range of 28kDa due to glycosylation. The BMP2 is purified by proprietary chromatographic techniques.

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