

## Product datasheet

# Human BMP7 full length protein ab83921

1 Image

### Overview

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**Product name** Human BMP7 full length protein

**Protein length** Full length protein

### Description

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**Nature** Recombinant

**Source** HEK 293 cells

### Amino Acid Sequence

**Species** Human

**Sequence** Theoretical sequence:  
 STGSKQRSQNRSKTPKNQEALRMANVAENSSSDQRQACK  
 KHELIVSFRDLGWQDWIAP  
 EGYAAYCEGECAPLNSYMNATNHAM  
 QTLVHFINPETVPKPCCAPTQLNAISVLYFDDSS  
 NVILKKYRNMVVRA CGCH

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab83921** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** Western blot

SDS-PAGE

**Purity** > 95 % SDS-PAGE.

**Form** Lyophilised

### Preparation and Storage

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**Stability and Storage** Shipped at 4°C. After reconstitution store at -20°C. Avoid freeze / thaw cycles.

Preservative: None

Constituents: 10% Trehalose, 1% Human serum albumin

## Reconstitution

It is recommended that 0.5 ml of sterile phosphate-buffered saline be added to the vial. Following reconstitution short-term storage at 4°C is recommended, with longer-term storage in aliquots at -18 to -20°C. Repeated freeze thawing is not recommended.

## General Info

### Function

Induces cartilage and bone formation. May be the osteoinductive factor responsible for the phenomenon of epithelial osteogenesis. Plays a role in calcium regulation and bone homeostasis.

### Tissue specificity

Expressed in the kidney and bladder. Lower levels seen in the brain.

### Sequence similarities

Belongs to the TGF-beta family.

### Developmental stage

Expressed in the developing eye, brain and ear during embryogenesis.

### Post-translational modifications

Several N-termini starting at positions 293, 300, 315 and 316 have been identified by direct sequencing resulting in secretion of different mature forms (PubMed:17977014).

### Cellular localization

Secreted.

## Images



Western blot - Anti-BMP7 antibody (

[ab84684](#)

)

Anti-BMP7 antibody ([ab84684](#)) at 1/1 dilution  
+ Human BMP7 full length protein ([ab83921](#))  
at 0.1 µg

### Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

**Exposure time:** 1 minute

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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