

## Product datasheet

# Recombinant human BMP3 protein ab97412

## 1 References

### Description

<b>Product name</b>	Recombinant human BMP3 protein
<b>Biological activity</b>	Determined by its ability to inhibit BMP-2-induced alkaline phosphatase production by ATDC-5 cells.
<b>Purity</b>	> 95 % SDS-PAGE. Purity is greater than 95% by SDS-PAGE gel and HPLC analyses.
<b>Endotoxin level</b>	< 0.100 Eu/μg
<b>Expression system</b>	HEK 293 cells
<b>Accession</b>	<b><u>P12645</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	MQWIEPRNCA RRYLKVDFAD IGWSEWIISP KSFDAYYCSG ACQFPMPKSL KPSNHATIQS MRAVGVVPG IPEPCCVPEK MSSLSILFFD ENKNVVLKVY PNMTVESCAC R
<b>Predicted molecular weight</b>	13 kDa
<b>Amino acids</b>	363 to 472

### Specifications

Our **Abpromise guarantee** covers the use of **ab97412** in the following tested applications.

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

<b>Applications</b>	Functional Studies SDS-PAGE HPLC
<b>Form</b>	Lyophilized
<b>Additional notes</b>	Determined by its ability to inhibit BMP-2-induced alkaline phosphatase production by ATDC-5 cells. Determined by its ability to inhibit BMP-2-induced alkaline phosphatase production by ATDC-5 cells.

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. This product is an active protein and may elicit a biological response in vivo, handle with caution.
<b>Reconstitution</b>	The lyophilized protein is stable at room temperature for up to 1 month. Working aliquots stored with a carrier protein are stable for at least 3 months at -20°C to -80°C.

## General Info

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<b>Function</b>	Negatively regulates bone density. Antagonizes the ability of certain osteogenic BMPs to induce osteoprogenitor differentiation and ossification.
<b>Tissue specificity</b>	Expressed in adult and fetal cartilage.
<b>Sequence similarities</b>	Belongs to the TGF-beta family.
<b>Cellular localization</b>	Secreted.

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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