

BMP-5 Blocking Peptide
Catalog # PBV10501b**Specification**

BMP-5 Blocking Peptide - Product Information

Primary Accession	P22003
Gene ID	653
Calculated MW	51737

BMP-5 Blocking Peptide - Additional Information**Gene ID** 653**Application & Usage**

The peptide is used for blocking the antibody activity of BMP-5 Peptide. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.

Other Names

Bone morphogenetic protein 5, BMP-5, BMP5

Target/Specificity

BMP-5

Formulation

50 µg (0.5 mg/ml) in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

BMP-5 Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

BMP-5 Blocking Peptide - Protein Information**Name** BMP5**Function**

Growth factor of the TGF-beta superfamily that plays essential roles in many developmental processes, including cartilage and bone formation or neurogenesis (PubMed:11580864, PubMed:29321139). Initiates the

canonical BMP signaling cascade by associating with type I receptor BMPR1A and type II receptor BMPR2 (PubMed: [11580864](http://www.uniprot.org/citations/11580864)). In turn, BMPR1A propagates signal by phosphorylating SMAD1/5/8 that travel to the nucleus and act as activators and repressors of transcription of target genes (PubMed: [29321139](http://www.uniprot.org/citations/29321139), PubMed: [11580864](http://www.uniprot.org/citations/11580864)). Can also signal through non-canonical pathway such as MAPK p38 signaling cascade to promote chondrogenic differentiation (PubMed: [20402566](http://www.uniprot.org/citations/20402566)). Promotes the expression of HAMP, this is repressed by its interaction with ERFE (PubMed: [30097509](http://www.uniprot.org/citations/30097509)).

Cellular Location

Secreted.

Tissue Location

Expressed in the lung and liver.

BMP-5 Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BMP-5 Blocking Peptide - Images