

## BMP-1 Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P7668
<b>Synonyms:</b>	rHuBMP-1, His; Prolylcarboxypeptidase; Angiotensinase C; Lysosomal Carboxypeptidase C
<b>Species:</b>	Human
<b>Source:</b>	HEK 293
<b>Accession:</b>	P42785 (L22-Q495)
<b>Gene ID:</b>	5547
<b>Molecular Weight:</b>	Approximately 72.0 kDa

### PROPERTIES

#### AA Sequence

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LRPALRALGS    LHLPTNPTSL    PAVAKNYSVL    YFQQKVDHFG
FNTVKT FNQR    YLVADKYWKK    NGGSILFYTG    NEGDI IWFCN
NTGFMWDVAE    ELKAMLVFAE    HRYYGESLPF    GDNSFKDSRH
LNFLTSEQAL    ADFAELIKHL    KRTIPGAENQ    PVIAIGGSYG
GMLAAWFRMK    YPHMVVGALA    ASAPIWQFED    LVP CGVFMKI
VTTDFRKS GP    HCSESIHR SW    DA INRLSNTG    SGLQWLTGAL
HLCSP L TSQD    IQHLKDWI SE    TWVNLAMVDY    PYASNFLQPL
PAWPIKVVCQ    YLKNPNVSDS    LLLQNI FQAL    NVYYNYS GQV
KCLN ISETAT    SSLGTLGWSY    QACTEVVMPF    CTNGVDDMFE
PHSWNLKELS    DDCFQQWGV R    PRPSWIT TMY    GGKNISSHTN
IVFSNGELDP    WSGGGVTKDI    TDTLVAVTIS    EGAHHLDLRT
KNALDPMSVL    LARSLEVRHM    KNWIRDFYDS    AGKQH HHHHH
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<b>Biological Activity</b>	Data is not available.
<b>Appearance</b>	Solution
<b>Formulation</b>	Supplied as a 0.2 µm filter solution of 20 mM NaAc-HAc, 150 mM NaCl, 10% Glycerol, pH4.5.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	N/A
<b>Storage &amp; Stability</b>	Stored at -80°C. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
<b>Shipping</b>	Shipping with dry ice.

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## DESCRIPTION

### Background

Bone morphogenetic protein 1 (BMP1) is a secreted metalloprotease of the astacin M12A family of bone morphogenetic proteins (BMPs). BMP1 activates transforming growth factor- $\beta$  (TGF- $\beta$ ) and BMP signaling pathways by proteolytic cleavage, which has dual roles in gastrointestinal tumor development and progression. TGF- $\beta$  promotes invasion and metastasis of gastric cancer (GC) by the help of BMP1, so upregulation of the BMP1 may increase cancer invasiveness in GC<sup>[1]</sup>.

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## REFERENCES

[1]. Rafi JH, et al. High expression of bone morphogenetic protein 1 (BMP1) is associated with a poor survival rate in human gastric cancer, a dataset approaches. Genomics. 2021;113(1 Pt 2):1141-1154.

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

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