

## Recombinant Human Bone Morphogenetic Protein 5

Cat. No. BMP5-11H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant BMP5 was expressed in <i>E.coli</i> and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer. MW = 15.7 kDa (139aa).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	BMP5 is a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. BMP5 may play a role in certain cancers. This protein may act as an important signaling molecule within the trabecular meshwork and optic nerve head, and may play a potential role in glaucoma pathogenesis.
<b>Amino Acid Sequence</b>	MAANKRKNQN RNKSSSHQDS SRMSSVGDYN TSEQKQACKK HELYVSFRDL GWQDWIIAPE GYAAFYCDGE CSFPLNAHMN ATNHAIVQTL VHLMFPDHVP KPCCAPTCLN AISVLYFDDS SNVILKKYRN MVVRSCGCH
<b>Form</b>	Liquid. In 10mM Sodium Citrate buffer (pH3.5) containing 10% Glycerol.
<b>Purity</b>	> 95% by SDS – PAGE.
<b>Concentration</b>	1 mg/ml (determined by Bradford assay).
<b>Endotoxin Level</b>	< 1.0 EU per 1 µg of protein (determined by LAL method ).

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**Storage** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

<b>Gene Name</b>	BMP5 bone morphogenetic protein 5 [ Homo sapiens ]
<b>Synonyms</b>	BMP5; bone morphogenetic protein 5; MGC34244; BMP-5; OTTHUMP00000016650
<b>Gene ID</b>	653
<b>mRNA Refseq</b>	NM_021073
<b>Protein Refseq</b>	NP_066551
<b>MIM</b>	112265
<b>UniProt ID</b>	P22003
<b>Chromosome Location</b>	6p12.1
<b>Pathway</b>	Cytokine-cytokine receptor interaction; Hedgehog signaling pathway; TGF-beta signaling pathway
<b>Function</b>	cytokine activity; growth factor activity; IEA protein binding

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