

Recombinant Human Bone Morphogenetic Protein 5

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

SPECIFICATION

Product Overview	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).
Species	Human
Source	E.coli
Description	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.
Amino Acid Sequence	MAANKRKNQN RNKSSSHQDS SRMSSVGDYN TSEQKQACKK HELYVSFRDL GWQDWIIAPE GYAAFYCDGE CSFPLNAHMN ATNHAIVQTL VHLMFDPDHVP KPCCAPTKLN AISVLYFDDS SNVILKKYRN MVVRSCGCH
Form	Liquid. In 10mM Sodium Citrate buffer (pH3.5) containing 10% Glycerol.
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Endotoxin Level	< 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**Gene Name**

BMP5 bone morphogenetic protein 5 [Homo sapiens]

Synonyms

BMP5; bone morphogenetic protein 5; MGC34244; BMP-5; OTTHUMP00000016650

Gene ID

653

mRNA Refseq

NM_021073

Protein Refseq

NP_066551

MIM

112265

UniProt ID

P22003

**Chromosome
Location**

6p12.1

Pathway

Cytokine-cytokine receptor interaction; Hedgehog signaling pathway; TGF-beta signaling pathway

Function

cytokine activity; growth factor activity; IEA protein binding

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