

Recombinant human BMP-5 (monomer) protein

Catalog Number: ATGP0350

PRODUCT INFORMATION

Expression system

E.coli

Domain

317-454aa

UniProt No.

P22003

NCBI Accession No.

NP_066551

Alternative Names

Bone morphogenetic protein 5, BMP-5, MGC34244

PRODUCT SPECIFICATION

Molecular Weight

15.7 kDa (139aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 10mM Sodium Citrate buffer (pH 3.5) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant BMP5 was

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expressed in *E. coli* and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

Amino acid Sequence

MAANKRKNQN RNKSSSHQDS SRMSSVGDYN TSEQKQACKK HELYVSFRDL GWQDWIIAPE GYAAFYCDGE
CSFPLNAHMN ATNHAIVQTL VHLMPDHVP KPCCAPTKLN AISVLYFDDS SNVILKKYRN MVVRSCGCH

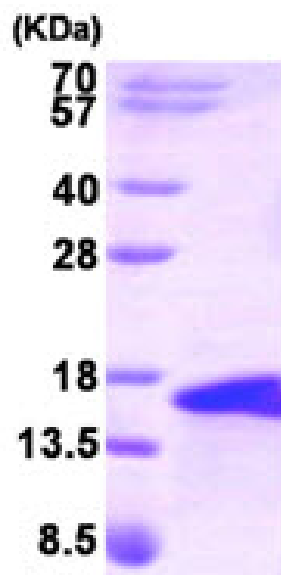
General References

Mailhot G., et al. (2008). *J Cell Physiol.* 214(1):56-64.

Matus DQ., et al. (2006). *Proc Natl Acad Sci U S A.* 103(30):11195-200.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)