

Datasheet for ABIN2468285 **BMP3 Protein**



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Overview

Quantity: 0.01 mg

Target: BMP3

Origin: Human

Source: Escherichia coli (E. coli)

Protein Type: Recombinant

Biological Activity: Active

Product Details

Sequence: MQWIEPRNCA RRYLKVDFAD IGWSEWIISP KSFDAYYCSG ACQFPMPKSL KPSNHATIQS
IVRAVGVVPG IPEPCCVPEK MSSLSILFFD ENKNVVLKVY PNMTVESCAC R

Characteristics: Biological activity was determined by its ability to inhibit BMP-2-induced alkaline phosphatase production by ATDC-5 cells.

Purity: < 95 % by SDS-PAGE gel and HPLC analyses.

Endotoxin Level: Endotoxin level is less than 0.1 ng per µg (1 EU/µg).

Target Details

Target: BMP3

Alternative Name: BMP-3 ([BMP3 Products](#))

Background: TGF-beta family members are key modulators of cell proliferation, differentiation, matrix synthesis, and apoptosis. As implied by their name, BMPs initiate, promote, and regulate the development, growth and remodeling of bone and cartilage. In addition to this role, BMPs are

Target Details

also involved in prenatal development and postnatal growth, remodeling and maintenance of a variety of other tissues and organs. BMP-3 is abundantly found in adult bone, and to a lesser extent fetal cartilage. BMP-3 inhibits osteogenesis and bone formation by activating a signaling cascade that antagonizes the signaling of pro-osteogenic BMPs. Recombinant human BMP-3 is a disulfide linked homodimeric protein that corresponds to residues 361 to 472 of the 472 amino acid BMP-3 precursor protein.

Gene ID: 651

NCBI Accession: [NP_001192](#)

OMIM: 126507087

UniProt: [P12645](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Handling Advice: As with any protein, exposing BMP-3 recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

Storage: -20 °C

Storage Comment: The recombinant protein is stable for at least 2 years from date of receipt at -20 °C.
Reconstituted BMP-3 stable for at least 3 months when stored in working aliquots with a carrier protein at -20 °C.

Expiry Date: 24 months