

Datasheet for ABIN2468294 **BMP5 Protein**

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Overview

Quantity:	0.002 mg
Target:	BMP5
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence:	AANKRKNQNR NKSSSHQDSS RMSSVGDYNT SEQKQACKKH ELYVSFRDLG WQDWIIAPEG YAAFYCDGEC SFPLNAHMNA TNHAIVQTLV HLMFPDHVPK PCCAPTKLNA ISVLYFDDSS NVILKKYRNM VVRSCGCH
Characteristics:	Biological activity was determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED50 for this effect is 1.0-2.0 µg/mL.
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:	BMP5
Alternative Name:	BMP-5 (BMP5 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

Target Details

development, growth and remodeling of bone and cartilage. In addition to this role, BMPs are also involved in prenatal development and postnatal growth, remodeling and maintenance of a variety of other tissues and organs. BMP-5 is expressed in the nervous system, lung and liver. It is a known regulator for dendritic growth in sympathetic neurons. BMP-5 is a 454 amino acid precursor protein that is cleaved to release the biologically active C-terminal mature protein. Recombinant human BMP-5 is a 31.2 kDa homodimeric disulfide-linked protein consisting of two identical 138 amino acid chains.

Gene ID:	653
NCBI Accession:	NP_066551
OMIM:	10835091
UniProt:	P22003
Pathways:	Regulation of Hormone Metabolic Process , Regulation of Hormone Biosynthetic Process

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Handling Advice:	As with any protein, exposing BMP-5 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-5 stable for at least 3 months when stored in working aliquots with a carrier protein at -20 °C.
Expiry Date:	24 months