

BMP-2 active protein

Recombinant human BMP-2 protein

CATALOG # AAA48357	HOST E Coli	APPLICATIONS SDS-Page
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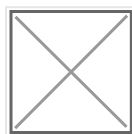
PRODUCT SYNONYMS

BMP-2; Recombinant human BMP-2 protein; Bone morphogenetic protein 2; BMP-2A; BMP-2 active protein

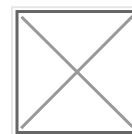
PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid in. 10mM Sodium acetate (pH 3.5)
Concentration	1mg/ml (determined by Bradford assay) (varies by lot)
Sequence Positions	283-396aa
Sequence	MQAKHKQRKR LKSSCKRHPL YVDFSDVGWN DWIVAPPGYH AFYCHGECPF PLADHLNSTN HAIVQTLVNS VNSKIPKACC VPTELSAISM LYLDENEKVV LKNYQDMVVE GCGCR
Sequence Length	396
Applicable Applications for BMP-2 active protein	Bioactivity, SDS-PAGE
Antigen Species	Human
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Tag Information	Non-Tagged
Biological Activity	Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED50 for this effect is ? 100 ng/ml.
Preparation and Storage	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.

IMAGES



Bioactivity
Human BMP-2 stimulates alkaline phosphatase in the ATDC5 mouse chondrogenic cells. The ED50 range ? 100 ng/ml.



SDS-PAGE
SDS-Page

ADDITIONAL INFORMATION

Related Product Information for BMP-2 active protein	BMP-2, also known as Bone morphogenetic protein 2, is multi-functional growth factor that belongs to the transforming growth factor beta (TGF beta) superfamily. It plays an important role in embryonic dorsal-ventral patterning, organogenesis, limb bud formation, and bone formation and regeneration. BMP-2 also promotes the maintenance and repair of colonic epithelium, suppresses neuronal dopamine synthesis and release, induces apoptosis in medulloblastoma cells, and is required for cardiac contractility. Recombinant human BMP2 was expressed in E. coli and purified by conventional chromatography techniques.
Product Categories/Family for BMP-2 active protein	Signal Transduction
References	Chen D., et al. (2004). Growth factors. 22(4):233-41;;Schliephake H., et al. (2005). Clin Oral Implants Res. 17(6):666-72

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557369
NCBI GeneID	650
NCBI Accession #	NP_001191
NCBI GenBank Nucleotide #	NP_001191.1
UniProt Accession #	P12643
Molecular Weight	13 kDa (115aa)
NCBI Official Full Name	bone morphogenetic protein 2 preproprotein
NCBI Official Synonym Full Names	bone morphogenetic protein 2
NCBI Official Symbol	BMP2
NCBI Official Synonym Symbols	BDA2; BMP2A; SSFSC
NCBI Protein Information	bone morphogenetic protein 2
UniProt Protein Name	Bone morphogenetic protein 2
UniProt Gene Name	BMP2
UniProt Synonym Gene Names	BMP2A; BMP-2; BMP-2A
UniProt Entry Name	BMP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/bmp-2/48357>