

BMP-2 Recombinant Protein | BMP2 recombinant protein

BMP-2 Protein, Human, Mouse, Rat, Rhesus, Canine, Recombinant

CATALOG #
AAA257421

HOST
E Coli

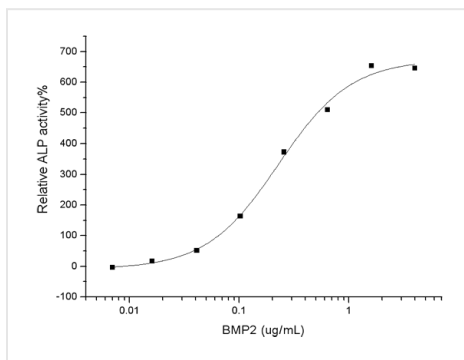
PRODUCT SYNONYMS

BMP-2; BMP-2 Protein; Human; Mouse; Rat; Rhesus; Canine; Recombinant; Human/Mouse/Rat/Rhesus/Canine BMP-2/BMP2A Protein; bone morphogenetic protein 2; BMP2 recombinant protein

PRODUCT SPECIFICATIONS

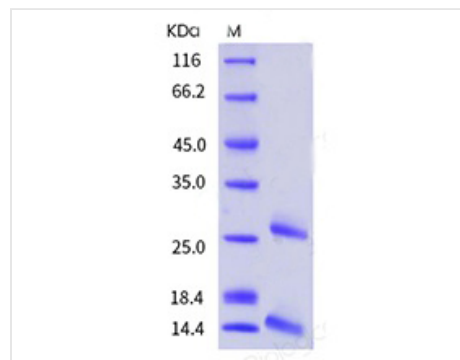
Host	E Coli
Purity/Purification	>95 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 3% CAN,.1% TFA Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence Positions	115aa
Sequence	Gln283-Arg 396
Species	Human, Mouse, Rat, Rhesus, Canine
Predicted N Terminal	Met
Protein Construction	JA DNA sequence encoding the mature form of human BMP2 (NP_001191.1) (Gln283-Arg396) was expressed. The mature form sequences of human, mouse, rat, rhesus and canine BMP2 are identical
Activity	Measured by its ability to induce alkaline phosphatase production by MC3T3-E1 mouse osteoblastic cells. The ED50 for this effect is typically 0.1-0.5ug/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Shipping: They are shipped out with blue ice pack

IMAGES



Application Data

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Application Data

ADDITIONAL INFORMATION

Related Product Information for BMP2 recombinant protein	BMP-2 protein, like other bone morphogenetic proteins, plays an important role in the development of bone and cartilage. BMP-2 protein is involved in the hedgehog pathway, TGF beta signaling pathway, and cytokine-cytokine receptor interaction. BMP-2 and BMP-7 are osteogenic BMPs that have been demonstrated to potently induce osteoblast differentiation in a variety of cell types. BMP-2, BMP-4 and BMP-7 are known to be of major importance in bone formation and repair. In cancerous tissues BMP-2 protein may play an important role in the progression of glioma.
Product Categories/Family for BMP2 recombinant protein	Early Mesodermal Lineage Markers
References	Jiao X, et al. (2007) Heparan sulfate proteoglycans (HSPGs) modulate BMP-2 osteogenic bioactivity in C2C12 cells. J Biol Chem. 282(2):1080-6.Michon F, et al. (2008) BMP-2 and BMP-7 play antagonistic roles in feather induction. Development 135 (16):2797-805.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557369
NCBI GeneID	650
NCBI Accession #	NP_001191.1
NCBI GenBank Nucleotide #	NM_001200.2
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
NCBI Protein Information	bone morphogenetic protein 2; BMP-2A; bone morphogenetic protein 2A

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://www.aaabiotech.com/bmp-2-recombinant-protein-e-coli/257421>