

BMP-2 Active Protein | BMP2 active protein

BMP-2 Protein, Danio rerio (zebrafish), Recombinant

CATALOG #
AAA258250

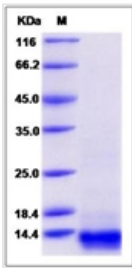
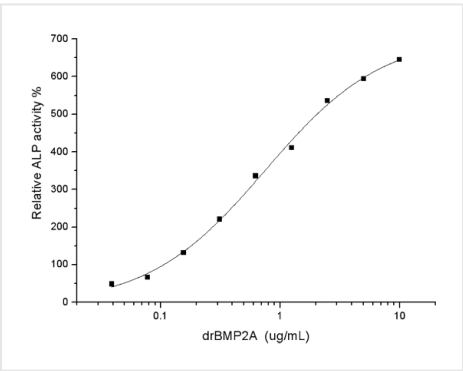
HOST
E Coli

PRODUCT SYNONYMS

BMP-2; BMP-2 Protein; Danio rerio (zebrafish); Recombinant; Danio rerio (zebrafish) BMP-2/BMP2A Protein; bone morphogenetic protein 2; BMP2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 30mM HAC, pH3.0. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Gln272-Arg 386
Species	Danio rerio (zebrafish)
Activity	Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED50 for this effect is typically 0.5-3ug/mL.
Predicted N Terminal	Met
Tag	Native
Protein Construction	A DNA sequence encoding the zebrafish BMP2A (B3DI86)(Gln272-Arg386) was expressed and purified with an initial Met.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
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. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED50 for this effect is typically 0.5-3 ug/mL.

ADDITIONAL INFORMATION

Related Product Information for BMP2 active protein	Background: 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 active 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

UniProt Accession #	B3DI86
Molecular Weight	The recombinant zebrafish BMP2A consists of 116 amino acids and has a calculated molecular mass of 13.2kDa. It migrates as an 13kDa band in SDS-PAGE under reducing conditions.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/e-coli-bmp2-active-protein/bmp-2/258250>