

BMP-2 recombinant protein

Recombinant Human/Mouse/Rat mature BMP-2 Protein

CATALOG #
AAA283377

HOST
E.coli

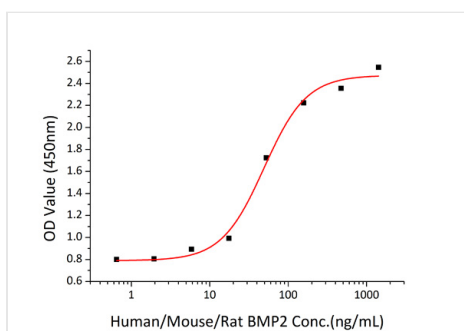
PRODUCT SYNONYMS

BMP-2; Recombinant Human/Mouse/Rat mature BMP-2 Protein; BDA2; BMP2A; BMP2; BMP-2 recombinant protein

PRODUCT SPECIFICATIONS

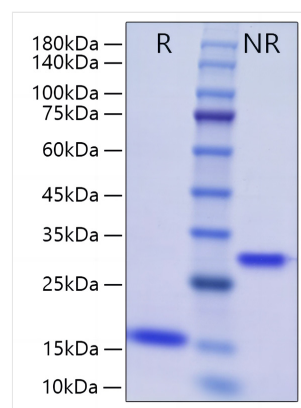
Host	E.coli
Purity/Purification	>95% by SDS-PAGE.
Form/Format	Lyophilized from a 0.22 um filtered solution of 0.1% TFA, 30% ACN. Contact us for customized product form or formulation.
Sequence	AKHKQRKRLK SSCKRHPLYV DFSDVGWNDW IVAPPGYHAF YCHGECPFPL ADHLNSTNHA IVQTLVNSVN SKIPKACCVP TELSAISMLY LDENEKVVLK NYQDMVVEGC GCR
Species	Human
Tag	No tag
Endotoxin	<1 EU/ug of the protein by LAL method.
Bio-Activity	Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED ₅₀ for this effect is 24.59-98.36ng/mL, corresponding to a specific activity of $1.02 \times 10^4 \sim 4.07 \times 10^4$ units/mg.
Preparation and Storage	Store at -20 degree C. Store the lyophilized protein at -20 degree C to -80 degree C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week.

IMAGES



Application Data

Recombinant Human/Mouse/Rat mature BMP-2 Protein induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED₅₀ for this effect is 24.59-98.36 ng/mL, corresponding to a specific activity of $1.02 \times 10^4 \sim 4.07 \times 10^4$ units/mg.



SDS-PAGE

Recombinant Human/Mouse/Rat mature BMP-2 Protein was resolved with SDS PAGE under reducing (R) and non-reducing (NR) conditions ?showing single bands at 15-20 kDa and 25-30 kDa, respectively.

ADDITIONAL INFORMATION

Related Product Information for BMP-2 recombinant protein	BMP-2 like other bone morphogenetic proteins, plays an important role in the development of bone and cartilage. It is involved in the hedgehog pathway, TGF beta signaling pathway, and in cytokine-cytokine receptor interaction. It is also involved in cardiac cell differentiation and epithelial to mesenchymal transition. Like many other proteins from the BMP family, BMP-2 has been demonstrated to potently induce osteoblast differentiation in a variety of cell types. BMP-2 may be involved in white adipogenesis and may have metabolic effects.
Product Categories/Family for BMP-2 recombinant protein	Cytokines & Cytokine receptors ; Cell Culture related ; Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	115068
NCBI GeneID	650
UniProt Accession #	P12643
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://www.aaabiotech.com/bmp2-recombinant-protein-e-coli/283377>