

Recombinant Human/Mouse/Rat mature BMP-2 Protein www.abclonal.com

Catalog No.: RP02510S Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 650 P12643

Tags

No tag

SynonymsBDA2;BMP2A;BMP2

Product Information

Source Purification E.coli > 95% by SDS-PAGE.

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of 0.1% TFA, 30% ACN. Contact us for customized product form or formulation.

Reconstitution

Please contact us for reconstitution instructions.

Background

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.

Basic Information

Description

Recombinant Human/Mouse/Rat mature BMP-2 Protein is produced by Escherichia coli expression system. The target protein is expressed with sequence (Ala284-Arg396) of Human/Mouse/Rat BMP-2 (NP_001191.1) fused with no tag.

Bio-Activity

Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED $_{50}$ for this effect is 24.59-98.36 ng/mL, corresponding to a specific activity of $1.02\times10^4\sim4.07\times10^4$ units/mg.

Storage

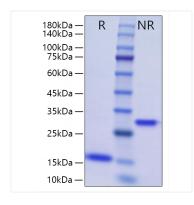
Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

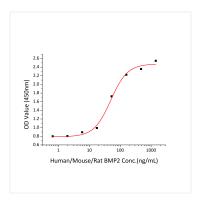
Contact

6	400-999-61	26
\bowtie	cn.market@abclonal.com	<u>.cn</u>
\odot	www.abclonal.com	<u>.cn</u>

Validation Data



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.



Recombinant Human/Mouse/Rat mature BMP-2 Protein induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED $_{50}$ for this effect is 24.59-98.36 ng/mL, corresponding to a specific activity of $1.02\times10^4\sim4.07\times10^4$ units/mg.