

Datasheet for ABIN7539303 **BMP2 Protein**



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Overview

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|----------------------|----------------------------|
| Quantity: | 10 µg |
| Target: | BMP2 |
| Origin: | Human |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Biological Activity: | Active |

Product Details

| | |
|------------------|---|
| Purpose: | BMP-2 |
| Sequence: | MQAKHKQRKR LKSSCKRHPL YVDFSDVGWN DWIVAPPGYH AFYCHGECPF PLADHLNSTN HAIVQTLVNS VNSKIPKACC VPTELSAISM LYLDENEKVV LKNYQDMVVE GCGCR |
| Specificity: | Chromosomal location:20p12 |
| Characteristics: | Length (aa):115 |
| Purity: | > 95 % by SDS-PAGE |
| Endotoxin Level: | < 0.1 ng per µg of BMP-2 |

Target Details

| | |
|-------------------|---|
| Target: | BMP2 |
| Alternative Name: | BMP-2 (BMP2 Products) |
| Background: | Bone morphogenetic protein 2, BDA2, BMP2A, bone morphogenetic protein 4, ZYME, BMP2B, |

Target Details

OFC11, BMP2B1, MCOPS6, Human Bone Morphogenetic Protein-2 (BMP-2) is a disulfide-bonded homodimeric protein with an apparent molecular weight of 26 kDa. BMP-2 regulates similarly to its nearest homologue BMP-4 diverse fundamental processes during embryonic development: BMP-2 and other BMP proteins have great potential for medical therapeutic applications, in particular because they allow or at least accelerate the ossification of extensive bone lesions. The amino acid sequence of recombinant human BMP-2 starts with MQAKHKQ (position 283) containing the Met from the E. coli expression vector. BMP-2 is a heparin binding protein.

Molecular Weight: 26.0 kDa

Gene ID: 650

NCBI Accession: [NM_001200](#), [NP_001191](#)

UniProt: [P12643](#)

Pathways: [Regulation of Hormone Metabolic Process](#), [Regulation of Hormone Biosynthetic Process](#), [Regulation of Muscle Cell Differentiation](#), [Growth Factor Binding](#), [Positive Regulation of fat Cell Differentiation](#)

Application Details

Application Notes: Measured by the ability of BMP-2 to induce alkaline phosphatase production by C2C12 myogenic cells. The ED50 for this effect is typically 0.3-0.8 µg/mL.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: The lyophilized BMP-2 is best soluble in 50 mM acetic acid at a concentration of 0.1 mg/mL but should be also soluble in most aqueous buffers when the pH is below 6.0.

Buffer: 50 mM acetic acid

Storage: -20 °C, -80 °C

Storage Comment: Lyophilized samples are stable for greater than six months at -20°C to -70°C. Reconstituted BMP-2 should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles!

Expiry Date: 6 months