

Recombinant Human BMP-4 (E399D) Protein

Catalog No.: RP02512S **Recombinant**

Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human | 652 | P12644 |

Tags

No tag

Synonyms

BMP-4; BMP4; BMP2B; BMP2B1; MCOPS6; OFC11; ZYME

Product Information

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

| Calculated MW | Observed MW |
|---------------|-------------|
| 13.25 kDa | 10-15 kDa |

Endotoxin

< 1.0 EU/μg of the protein by LAL method.

Formulation

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

Reconstitution

Please contact us for reconstitution instructions.

Contact

☎ | 400-999-6126

✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

Background

Bone morphogenetic protein 4 is a protein that in humans is encoded by BMP4 gene. BMP4 is found on chromosome 14q22-q23. BMP4 is a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. BMP4 is highly conserved evolutionarily. BMP4 is found in early embryonic development in the ventral marginal zone and in the eye, heart blood and otic vesicle.

Basic Information

Description

Recombinant Human BMP-4 (E399D) Protein is produced by E.coli expression system. The target protein is expressed with sequence (Ser293-Arg408 (E399D)) of human BMP-4 (Accession #P12644) fused with No tag.

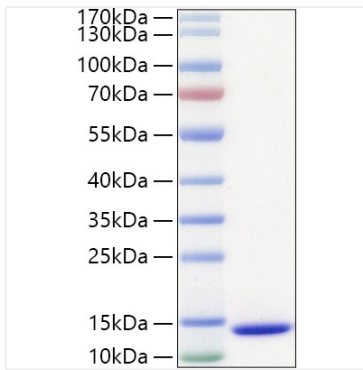
Bio-Activity

Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED₅₀ for this effect is 30.3-121.2 ng/mL, corresponding to a specific activity of 8.25×10³~3.30×10⁴ units/mg.

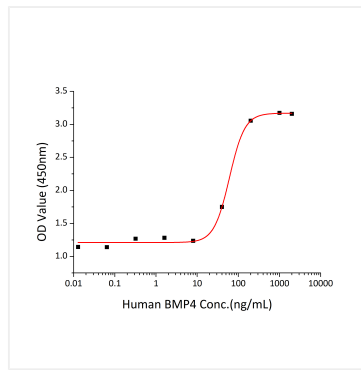
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. 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.

Validation Data



Recombinant Human BMP-4 (E399D) Protein was determined by SDS-PAGE with Coomassie Blue, showing bands at 10-15 kDa.



Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED_{50} for this effect is 30.3-121.2 ng/mL, corresponding to a specific activity of $8.25 \times 10^3 \sim 3.30 \times 10^4$ units/mg.