

Recombinant Protein Technical Manual

Recombinant Human/Mouse/Rat/Rhesus/Canine BMP-2 Protein (Active)

RPES1020

Product Data:

Product SKU: RPES1020 Size: 5μg

Species: Human Expression host: E. coli

Uniprot: NP 001191.1

Protein Information:

Molecular Mass: 13 kDa

AP Molecular Mass:

Tag:

Bio-activity: Measured by its ability to induce alkaline phosphatase production by MC3T3-E1

mouse osteoblastic cells. The ED50 for this effect is typically 0.5-2 μg/ml.

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: Please contact us for more information.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.

Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile 30 % CAN, 0.1 % TFA, pH 2.9.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: BDA2;BDA2A;BMP-2;BMP2A;BMP2

Immunogen Information:

Sequence: Gln283-Arg396

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.