



Recombinant Protein Technical Manual

Recombinant Human/Mouse/Rat/Rhesus/Canine BMP-2 Protein (Fc Tag)(Active) RPES1004

Product Data:

Product SKU: RPES1004

Size: 10µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_001191.1

Protein Information:

Molecular Mass: 39.5 kDa

AP Molecular Mass:

Tag: C-Fc

Bio-activity: 1. Measured by its ability to bind recombinant human Nog-Fc in a functional ELISA. 2. Measured by its ability to bind recombinant human ALK3-Fch in a functional ELISA. 3. Measured by its ability to bind recombinant mouse ALK3-Fch in a functional ELISA. 4. Measured by its ability to bind recombinant human BMPR-II-Fc in a functional ELISA.

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

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

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 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5

1. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.
2. Please contact

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

Application: Functional ELISA

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

Immunogen Information:

Sequence: Gln 283-Arg 396

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.