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

Catalog Number: 10426-H01H

General Information

Gene Name Synonym:

BDA2; BDA2A; BMP-2; BMP2A

Protein Construction:

A DNA sequence encoding the mature form of human BMP2 (NP_001191.1) (Gln 283-Arg 396) was fused with the Fc region of human IgG1 at the N-terminus. The mature form sequences of human, mouse, rat, rhesus and canine BMP2 are identical.

Source: Human

Expression Host: HEK293 Cells

QC Testing

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

Bio Activity:

1.Measured by its ability to bind recombinant human Nog-Fc (Cat:10267-H02H) in a functional ELISA. 2. Measured by its ability to bind recombinant human ALK3-Fch (Cat:10446-H03H) in a functional ELISA. 3. Measured by its ability to bind recombinant mouse ALK3-Fch (Cat:50078-M03H) in a functional ELISA. 4. Measured by its ability to bind recombinant human BMPR-II-Fc (Cat:10551-H03H) in a functional ELISA.

Endotoxin:

< 1.0 EU per μg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: Glu 20

Molecular Mass:

The recombinant human BMP2 consists of 351 amino acids and has a predicted molecular mass of 39.5 kDa.

Formulation:

Lyophilized from sterile 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

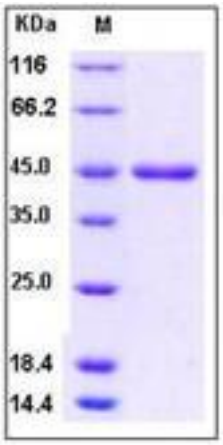
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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.