Datasheet for ABIN7318086

BMP2 Protein (Fc Tag)

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Overview

Quantity:	100 µg
Target:	BMP2
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This BMP2 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human/Mouse/Rat/Rhesus/Canine BMP-2 Protein (Fc Tag)(Active)
Sequence:	Gln 283-Arg 396
Characteristics:	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 C-terminus. The mature form sequences of human, mouse, rat, rhesus and canine BMP2 are identical.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	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.

Target Details

Target:	BMP2
Alternative Name:	BMP-2 (BMP2 Products)
Background:	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. Synonym: BDA2,BDA2A,BMP-2,BMP2A,BMP2
Molecular Weight:	39.5 kDa
NCBI Accession:	NP_001191
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

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 100 mM Glycine, 10 mM NaCl, 50 mM 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 us for any concerns or special requirements.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, 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.