

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



Catalog Number: PKSH031985

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

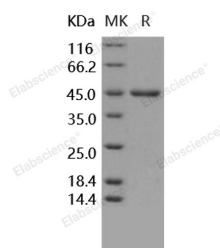
## Description

|                                    |                                                                                                                                 |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>                    | BDA2;BDA2A;BMP-2;BMP2A;BMP2                                                                                                     |
| <b>Species</b>                     | Human                                                                                                                           |
| <b>Expression Host</b>             | HEK293 Cells                                                                                                                    |
| <b>Sequence</b>                    | Gln 283-Arg 396                                                                                                                 |
| <b>Accession</b>                   | NP_001191.1                                                                                                                     |
| <b>Calculated Molecular Weight</b> | 39.5 kDa                                                                                                                        |
| <b>Tag</b>                         | C-hFc                                                                                                                           |
| <b>Bioactivity</b>                 | Measured by its ability to bind recombinant human Nog-Fc, human ALK3-Fch, mouse ALK3-Fch, human BMPR-II-Fc in functional ELISA. |

## Properties

|                       |                                                                                                                                                                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.                                                                                                                                                                                                                 |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                            |
| <b>Storage</b>        | 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.                      |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.                                                                                                                                                                            |
| <b>Formulation</b>    | Lyophilized from sterile 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.                                                                                                                                                                                               |

## Data



> 95 % as determined by reducing SDS-PAGE.

## 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.

## For Research Use Only

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