

# Human BMPR2 (His & Fc Tag) recombinant protein



Catalog Number: 502741

## General Information

### Gene Name Synonym

Bone morphogenetic protein receptor type II

### Protein Construction

A DNA sequence encoding the human BMPR-II (NP\_001195.2) extracellular domain (Met 1-Ile 151) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured by its binding ability in a functional ELISA.
2. Immobilized human BMPR-II-Fc (Cat:502741) at 10 µg/mL (100 µl/well) can bind biotinylated human BMP2-Fc (Cat:500392), The  $EC_{50}$  of biotinylated human BMP2-Fc (Cat:500392) is 80-110 ng/mL.

### Purity

> 90 % as determined by SDS-PAGE

### 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°C

### Predicted N terminal

Ser 27

### Molecular Mass

The recombinant human BMPR-II/Fc is a disulfide-linked homodimer. The reduced monomer consists of 373 amino acids and has a predicted molecular mass of 42 kDa. As a result of glycosylation, the apparent molecular mass of rh BMPR-II/Fc monomer migrates with an apparent molecular mass of 60-65 kDa in SDS-PAGE under reducing conditions.

### Formulation

- Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
  2. Please contact us for any concerns or special requirements.

## Usage Guide

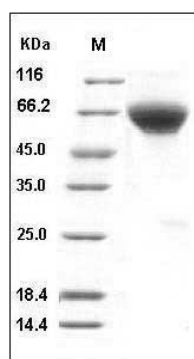
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



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Human BMPR2 / BMPR-II Protein (His & Fc Tag)      SDS-PAGE