

# Recombinant Human BMPR-1B/ALK-6/CDw293 Protein

Catalog No.: RP01222 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	658	O00238

### Tags

C-hFc&His

### Synonyms

ALK-6;ALK6;AMDD;BDA1D;BDA2;CDw293 ;BMPR1B; ALK-6; ALK6; AMDD; BDA1D; BDA2; CDw293; bone morphogenetic protein receptor type-1B

## Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

### Endotoxin

< 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

### Basic Information

#### Description

Active Recombinant Human BMPR-1B/ALK-6 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys14-Arg126) of human BMPR-1B/ALK-6 (Accession #NP\_001194.1) fused with a Fc, 6×His tag at the C-terminus.

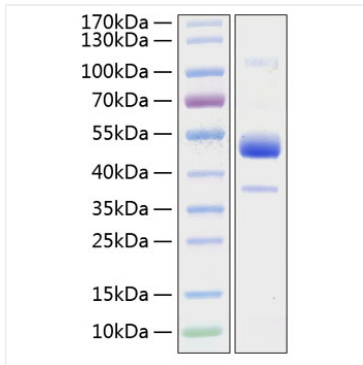
#### Bio-Activity

1. Measured by its binding ability in a functional ELISA. Immobilized Human BMP2 at 4 μg/mL (100 μL/well) can bind Human BMPR1B with a linear range of 20-338 ng/mL. 2. Measured by its ability to inhibit rhBMP-4-induced alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED<sub>50</sub> for this effect is 0.6-2.3 μg/mL in the presence of 30 ng/mL of rhBMP-4.

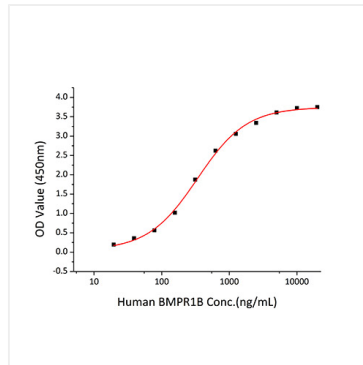
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

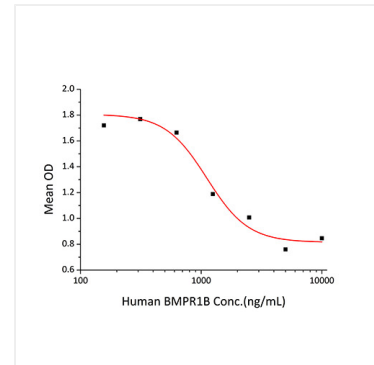
## Validation Data



Recombinant Human BMPR-1B/ALK-6 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 50-55 kDa.



Immobilized Human BMP2 at 4  $\mu\text{g}/\text{mL}$  (100  $\mu\text{L}/\text{well}$ ) can bind Human BMPR1B with a linear range of 20-338ng/mL.



Recombinant Human BMPR1B inhibits rhBMP-4-induced alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The  $\text{ED}_{50}$  for this effect is 0.6-2.3  $\mu\text{g}/\text{mL}$  in the presence of 30 ng/mL of rhBMP-4.