

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

Catalog No.: RP01222 Recombinant

## **Sequence Information**

Species Gene ID Swiss Prot Human 658 000238

## **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 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

39.50 kDa 50-55 kDa

#### **Endotoxin**

< 0.1 EU/ $\mu$ g 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

6		400-999-6126
$\bowtie$		cn.market@abclonal.com.cn
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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-IB/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  $\mu$ g/mL (100  $\mu$ L/well) can bind Human BMPRIB 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  $\mu$ g/mL in the presence of 30 ng/mL of rhBMP-4.

#### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

#### 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.

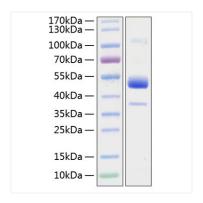
Avoid repeated freeze/thaw cycles.

## **Operational Notes**

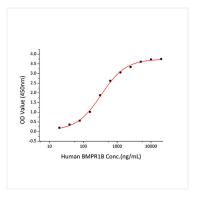
For your safety and health, please wear a lab coat and disposable gloves for handling.

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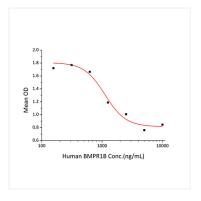
## **Validation Data**



Recombinant Human BMPR-1B/ALK-6/CDw293 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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



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