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

Catalog No.: RP01222

Sequence Information

Species	Gene ID
Human	658
Swiss Prot	**Tags**
O00238	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/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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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.

Activity

1.Measured by its binding ability in a functional ELISA. Immobilized Human BMP2 at 4 μg/mL (100 μL/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_{50} for this effect is 0.6-2.3 μg/mL in the presence of 30 ng/mL of rhBMP-4.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20℃

Operational Notes

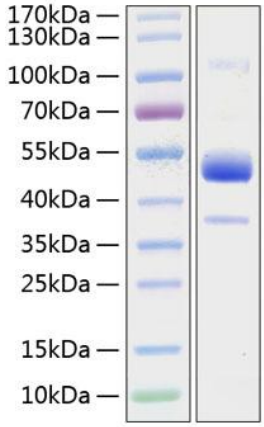
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

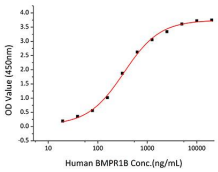
400-999-6126
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Please visit http://abclonal.com for a complete listing of recommended products.

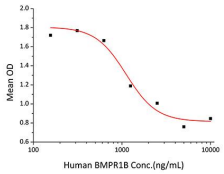
Validation Data



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



Immobilized Human BMP2 at 4 μg/mL (100 μL/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 μg /mL in the presence of 30 ng/mL of rhBMP-4.