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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 % 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.

Contact

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Background

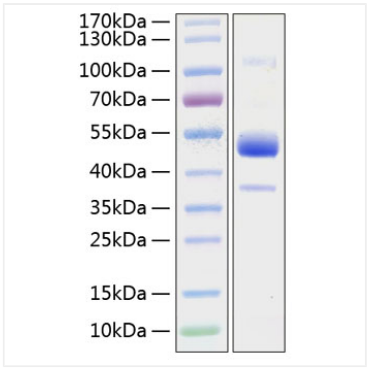
Basic Information

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-IB/ALK-6 (Accession #NP_001194.1) fused with a Fc, 6×His tag at the C-terminus.

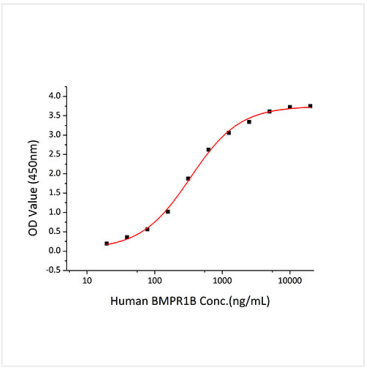
Bio-Activity
1.Measured by its binding ability in a functional ELISA. Immobilized Human BMP2 at 4 μg/mL (100 μL/well) can bind Human BMPRIB with a linear range of 20-338 ng/mL.|2.Measured by its ability to inhibit rhBMP-4-induced alkaline phosphatase production by ATDC5 mouse chondrogenic cells.The ED_{50}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

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

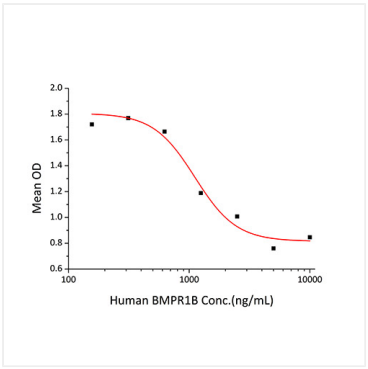
Validation Data



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.