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Recombinant

Species	Gene ID	Swiss Prot
Human	657	P36894

Synonyms
BMPRI1A;10q23del;ACVRLK3;ALK3;CD292
;SKR5

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE

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

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

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.

The bone morphogenetic protein (BMP) receptors are a family of transmembrane serine/threonine kinases that include the type I receptors BMPRIA and BMPRIB and the type II receptor BMPRII. These receptors are also closely related to the activin receptors, ACVR1 and ACVR2. The ligands of these receptors are members of the TGF-beta superfamily. TGF-betas and activins transduce their signals through the formation of heteromeric complexes with 2 different types of serine (threonine) kinase receptors: type I receptors of about 50-55 kD and type II receptors of about 70-80 kD. Type II receptors bind ligands in the absence of type I receptors, but they require their respective type I receptors for signaling, whereas type I receptors require their respective type II receptors for ligand binding.

Active Recombinant Human BMPR-1A/ALK-3 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln24-Arg152) of human BMPRIA/ALK-3/CD292 (Accession #NP_004320.2) fused with an Fc, 6×His tag at the C-terminus.

Measured by its binding ability in a functional ELISA. Immobilized Human ACVR2B at 1 µg/mL (100 µL/well) can bind Human BMPRIA with a linear range of 0.5-62.5 ng/mL.

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.

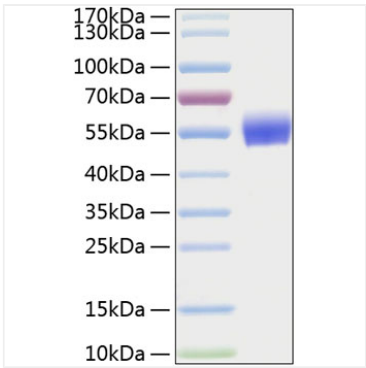
Avoid repeated freeze/thaw cycles.

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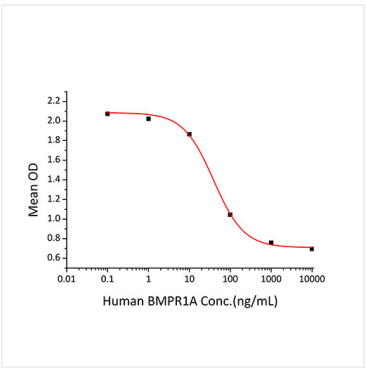
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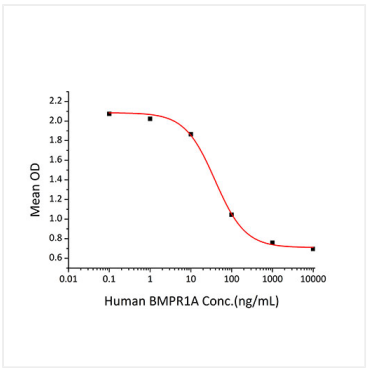
Validation Data



Recombinant Human BMPR-1A/ALK-3/CD292 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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Recombinant human BMPR1A inhibits rhBMP-4-induced alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED₅₀ for this effect is 19.5-78 ng/mL in the presence of 15 ng/mL of Recombinant Human BMP-4.