

RP00310

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Recombinant Human BMPR1A/ALK-3/BMPRIA Protein

Catalog No.: RP00310

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	657	P36894

Tags

C-Fc & 6xHis

Synonyms

BMPR1A;10q23del;ACVRLK3;ALK3;CD292;SKR5

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Background

The bone morphogenetic protein (BMP) receptors are a family of transmembrane serine/threonine kinases that include the type I receptors BMPR1A and BMPR1B and the type II receptor BMPR2. 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.

Basic Information

Description

Recombinant Human BMPR1A/ALK-3/BMPRIA Protein is produced by Human Cell expression system. The target protein is expressed with sequence (Gln24-Arg152) of human BMPR1A/ALK-3/BMPRIA (Accession #P36894) fused with an Fc, 6xHis tag at the C-terminus.

Bio-Activity

Measured by its ability to inhibit rhBMP-4-induced alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED₅₀ for this effect is 0.03-0.12 μg/mL in the presence of 15 ng/mL of Recombinant Human BMPR1A/ALK-3/BMPR-IA.

Storage

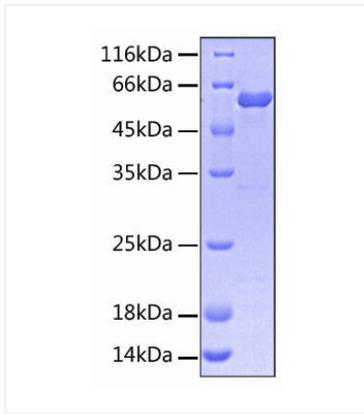
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact



www.abclonal.com

Validation Data



Recombinant protein Human BMPRI1/ALK-3/BMPRI-IA was determined by SDS-PAGE under reducing conditions with Coomassie Blue, showing a band at 60 kDa.