

RP00811

Leader in Biomolecular Solutions for Life Science



Recombinant Mouse BMPR1A/ALK-3 Protein

Catalog No.: RP00811

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	12166	P36895

Tags

C-Fc & 6×His

Synonyms

ALK-3; Bone morphogenetic protein receptor type-1A; BMP type-1A receptor; BMPR-1A; Activin receptor-like kinase 3; BMP-2/BMP-4 receptor; Serine/threonine-protein kinase receptor R5; SKR5; CD292;; Acvrlk3

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 20mM PB, 150mM NaCl, 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

ALK-3 is a type I receptor for bone morphogenetic proteins (BMPs) which belong to the protein kinase superfamily, TKL Ser/Thr protein kinase family and TGFβ receptor subfamily. The BMP receptors consist of the type I receptors BMPR1A and BMPR1B and the type II receptor BMPR2. Seven known type I serine/threonine kinases and five mammalian type II serine/threonine kinase receptors function in TGF-β superfamily signal transduction. The downstream molecules of the type I BMP receptors include the Smad (Smad1, 5 and 8) proteins that are phosphorylated in a ligand-dependent manner, and relay the BMP signal from the receptors to target genes in the nucleus. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. ALK-3 contains a GS domain and a protein kinase domain. ALK-3 is widely expressed. Defects in BMPR1A gene are a cause of a significant proportion of cases of juvenile polyposis syndrome (JPS).

Basic Information

Description

Recombinant Mouse BMPR1A/ALK-3 Protein is produced by Human cells expression system. The target protein is expressed with sequence (Gln24-Arg152) of mouse BMPR1A/ALK-3 (Accession #P36895) fused with an Fc, 6×His tag at the C-terminus.

Bio-Activity

Storage

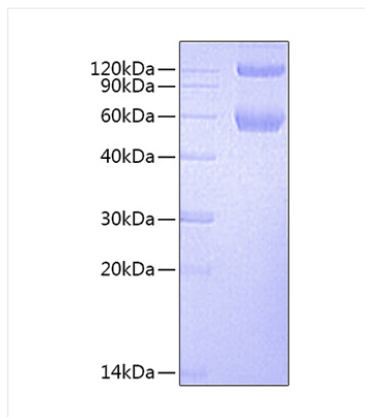
Store the lyophilized protein at -20 °C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact



www.abclonal.com

Validation Data



Recombinant Mouse BMPRI1A/ALK-3 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.