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BMPR1B
Recombinant Human BMPR-1B / ALK-6 (Fc Tag)

Catalog No.	CRH488A-Fc CRH488B-Fc	**Quantity:**	100 µg 200 µg

Alternate Names: Bone morphogenetic protein receptor type-1B, BMP type-1B receptor, BMPR-1B, CDw293

Description: BMPR-1B is a a member of the bone morphogenetic protein receptor family. BMPs are involved in endochondral bone formation and embryogenesis. These proteins transduce their signals through the formation of heteromeric complexes of 2 different types of serine (threonine) kinase receptors: type I receptors of about 5-55 kD and type II receptors of about 7-8 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. BMPR-1B is the major transducer of signals in precartilaginous condensations as demonstrated in experiments using constitutively active BMPR-1B receptors. BMPR-1B is a more effective transducer of GDF5 than BMPR-1A. Unlike BMPR-1A null mice, which die at an early embryonic stage, BMPR-1B null mice are viable.

UniProt ID: O00238

Accession Number: NP_001194.1

Protein Construction: A DNA sequence encoding the human ALK6 (Lys14-Arg126) was expressed with the Fc region of human IgG1 at the C-terminus.

Source: HEK293 Cells

Formulation: Lyophilized from sterile PBS, pH 7.4
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Weight: The recombinant human ALK6/Fc is a disulfide-linked homodimer. The reduced monomer comprises 354 amino acids and has a predicted molecular mass of 39.7 kDa. The apparent molecular mass of the protein is approximately 110 kDa in SDS-PAGE under reducing conditions.

Purity: > 90 % as determined by SDS-PAGE

Endotoxin Level: < 1.0 EU per µg protein as determined by the LAL method.

Biological Activity: Measured by its ability to inhibit rhBMP4-induced alkaline phosphatase production by MC3T3-E1 mouse osteoblastic cells.
The ED50 for this effect is typically 2-8 µg/mL in the presence of 50 ng/mL of recombinant human BMP4.

Predicted N-terminal: Lys 14

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.
DO NOT VORTEX. Allow several minutes for complete reconstitution.

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Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

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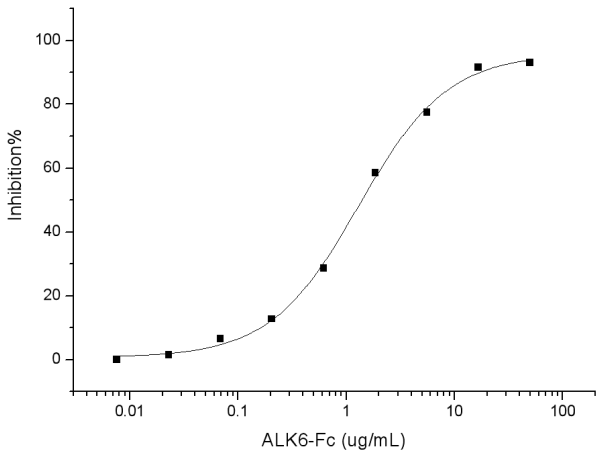
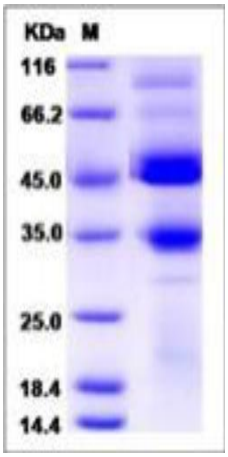


SDS-PAGE



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