

37-1057: Human ALK-1 / ACVRL1 Recombinant Protein (Fc Tag)(Discontinued)

Reactivity : Human

Alternative Name : ACVRLK1 Protein, ALK-1 Protein, ALK1 Protein, HHT Protein, HHT2 Protein, ORW2 Protein, SKR3 Protein, TSR-I Protein,

Description

Source : HEK293 Cells

Activin A receptor, type II-like 1 (ACVRL1), also known as ALK-1 (activin receptor-like kinase 1), is an endothelial-specific type I receptor of the TGF-beta (transforming growth factor beta) receptor family of ligands. On ligand binding, a heteromeric receptor complex forms consisting of two type II and two type I transmembrane serine/threonine kinases. ACVRL1 protein is expressed in certain blood vessels of kidney, spleen, heart and intestine, serving as an important role during vascular development. Mutations in ACVRL1 gene are associated with hemorrhagic telangiectasia type 2, also known as Rendu-Osler-Weber syndrome 2 and vascular disease.

Product Info

Amount : 1 / ACVRL1 Recombinant Protein (Fc Tag)(Discontinued) / 200 µg

Purification : > 97 % as determined by SDS-PAGE

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

Storage condition : Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Amino Acid : Met1-Gln118

Application Note

1. Measured by its ability to bind Human ENG-Fc in functional Elisa. 2. Measured by its ability to latent TGFB1-His in functional Elisa. 3. Measured by its ability to mouse ENG-His in functional Elisa. 4. Measured by its ability to inhibit BMP9 induced alkaline phosphatase production by MC3T3E1 mouse chondrogenic cells. David, L. et al. (2007) Blood 109:1953. The ED50 for this effect is typically 5-15 ng/mL in the presence of 2 ng/mL of recombinant human BMP9. Endotoxin :< 1.0 EU per µg of the protein as determined by the LAL method

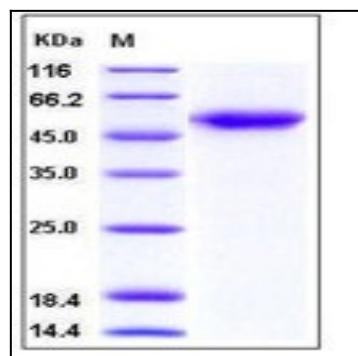


Fig 1: Human ALK-1 / ACVRL1 Recombinant Protein (Fc Tag)

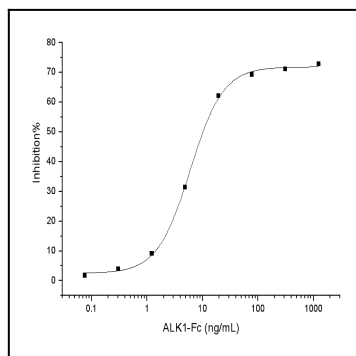


Fig 2: Human ALK-1 / ACVRL1 Recombinant Protein (Fc Tag) measured by its ability to inhibit BMP9 induced alkaline phosphatase production by MC3T3E1 mouse chondrogenic cells.