

## 37-1058: Human ALK-1 / ACVRL1 Recombinant Protein (His 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 (His Tag)(Discontinued) / 200 µg  
**Purification :** > 92 % 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

Measured by its ability to inhibit BMP9 induced alkaline phosphatase production by MC3T3E1 mouse chondrogenic cells. The ED50 for this effect is typically 50-200 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

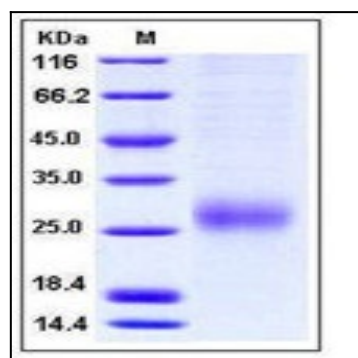


Fig 1: Human ALK-1 / ACVRL1 Recombinant Protein (His Tag)

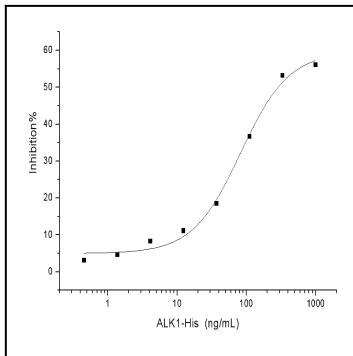


Fig 2: Human ALK-1 / ACVRL1 Recombinant Protein (His Tag) measured by its ability to inhibit BMP9 induced alkaline phosphatase production by MC3T3E1 mouse chondrogenic cells.