

ACVRL1

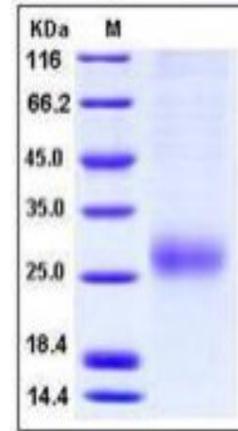
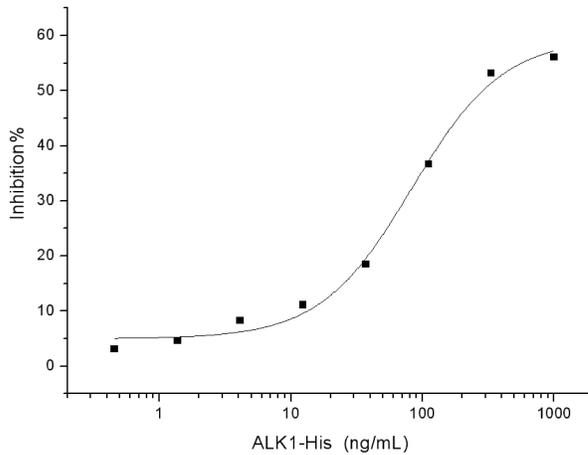
Recombinant Human ALK-1 / ACVRL1 (His Tag)

Catalog No.	CRH389A-His CRH389B-His	Quantity:	100 µg 200 µg
Alternate Names:	Serine/threonine-protein kinase receptor R3, SKR3, Activin receptor-like kinase 1, ALK-1, TGF-B superfamily receptor type I, TSR-I		
Description:	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.		
UniProt ID:	P37023		
Accession Number:	NP_000011.2		
Protein Construction:	A DNA sequence encoding the the extracellular domain of human ALK1 (NP_000011.2) (Met 1-Gln 118) was fused with a polyhistidine tag at the C-terminus.		
Source:	HEK293 Cells		
Molecular Weight:	The recombinant human ALK1 comprises 108 amino acids and has a predicted molecular mass of 12.3 kDa. As a result of glycosylation, rhALK1 migrates as an approximately 27 kDa protein in SDS-PAGE under reducing conditions.		
Formulation:	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Purity:	> 92 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method		
Biological Activity:	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.		
Predicted N-terminal:	Asp 22		
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.		
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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