

Cynomolgus ALK-1/ACVRL1 Protein



Cat. No. ALK-CM101

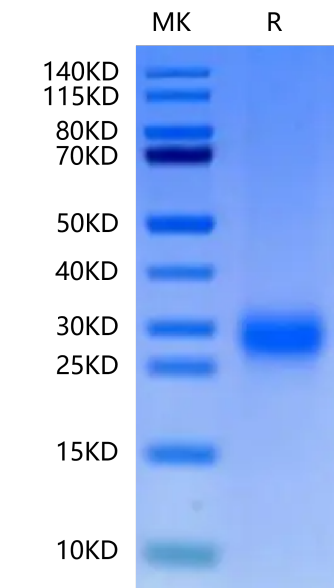
Description	
Source	Recombinant Cynomolgus ALK-1/ACVRL1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Asp22-Gln118.
Accession	XP_005570958.1
Molecular Weight	The protein has a predicted MW of 11.86 kDa. Due to glycosylation, the protein migrates to 25-35 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
Activin receptor-like kinase 1 (ALK1)-mediated endothelial cell signalling in response to bone morphogenetic protein 9 (BMP9) and BMP10 is of significant importance in cardiovascular disease and cancer. Structural analyses reveal a tripartite recognition mechanism that defines BMP9 and BMP10 specificity for ALK1, and predict that crossveinless 2 is not an inhibitor of BMP9, which is confirmed by experimental evidence.	

Assay Data

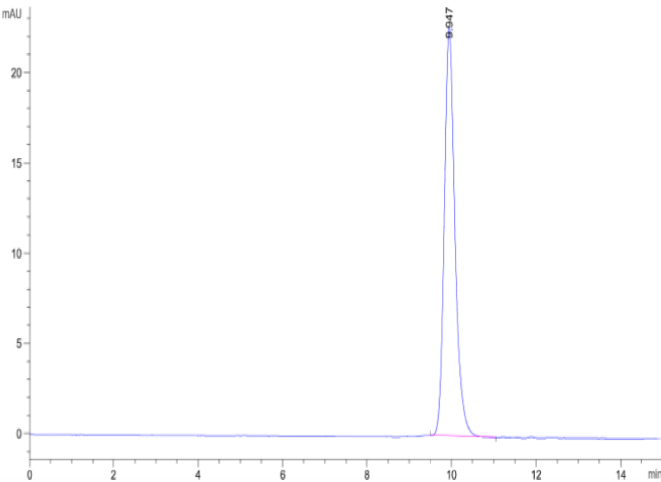
Bis-Tris PAGE



Cynomolgus ALK-1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data

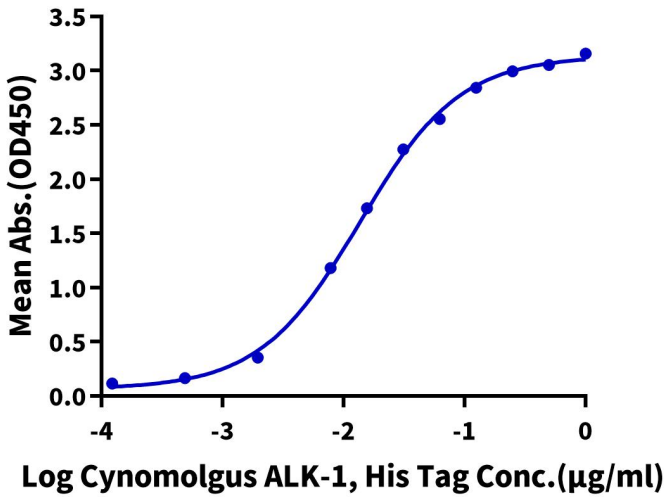


The purity of Cynomolgus ALK-1 is greater than 95% as determined by SEC-HPLC.

ELISA Data

Cynomolgus ALK-1, His Tag ELISA

0.05µg Human GDF-2, No Tag Per Well



Immobilized Human GDF-2, No Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Cynomolgus ALK-1, His Tag with the EC50 of 13.6ng/ml determined by ELISA (QC Test).