

Cynomolgus ALK-7/Activin RIC Protein, Ultra Low Endotoxin



Cat. No. ALK-CM107-UL

Description	
Source	Recombinant Cynomolgus ALK-7/Activin RIC Protein is expressed from HEK293 with His tag at the C-terminus. It contains Gly25-Glu113.
Accession	A0A2K5VZP2
Molecular Weight	The protein has a predicted MW of 11.2 kDa. Due to glycosylation, the protein migrates to 20-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.005 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 90% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in 20mM Tris, 150mM NaCl (pH 7.5). 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 7 (ALK7), a member of type I transforming growth factor-β (TGF-β) receptors, is correlated with pathogenic risks of type 2 diabetes mellitus and cardiovascular diseases and may be involved in cardiovascular remodeling.	

Assay Data

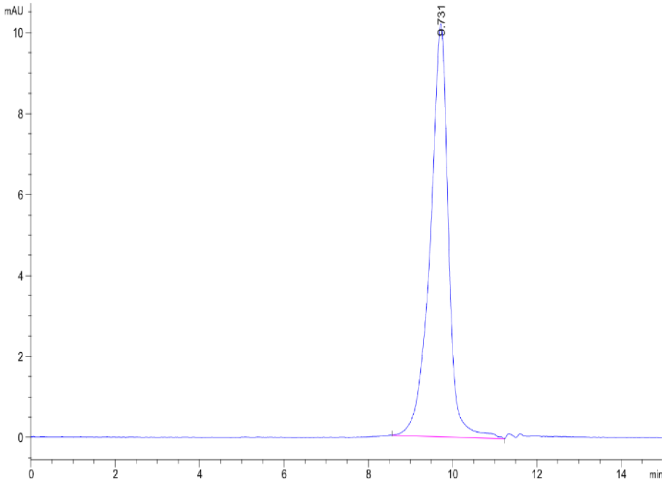
Bis-Tris PAGE



Cynomolgus ALK-7 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

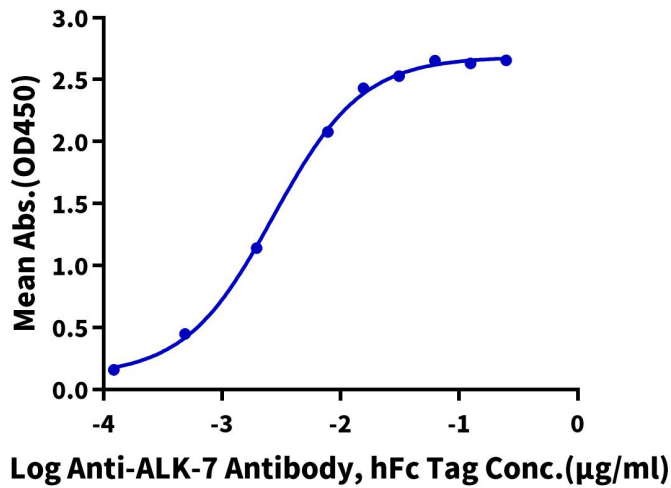
Assay Data



The purity of Cynomolgus ALK-7 is greater than 90% as determined by SEC-HPLC.

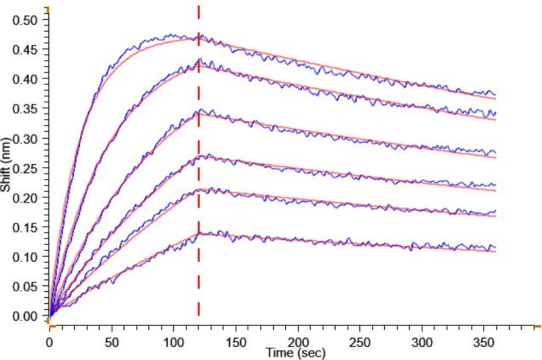
ELISA Data

Cynomolgus ALK-7, His Tag ELISA
0.05µg Cynomolgus ALK-7, His Tag Per Well



Immobilized Cynomolgus ALK-7, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-ALK-7 Antibody, hFc Tag with the EC50 of 2.7ng/ml determined by ELISA (QC Test).

BLI Data



Loaded Anti-ALK-7 Antibody, hFc-Avi Tag on ProA-Biosensor can bind Cynomolgus ALK-7, His Tag with an affinity constant of 5.30 nM as determined in BLI assay (Gator® Prime).