

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



Cat. No. ALK-MM107-UL

Description	
Source	Recombinant Mouse ALK-7/Activin RIC Protein is expressed from HEK293 with His tag at the C-terminus. It contains Leu26-Glu113.
Accession	Q8K348
Molecular Weight	The protein has a predicted MW of 11.14 kDa. Due to glycosylation, the protein migrates to 20-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

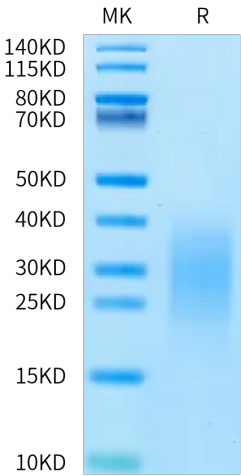
Formulation and Storage	
Formulation	Lyophilized from 0.22 µm filtered solution in 20mM Tris, 150mM NaCl (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed 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.

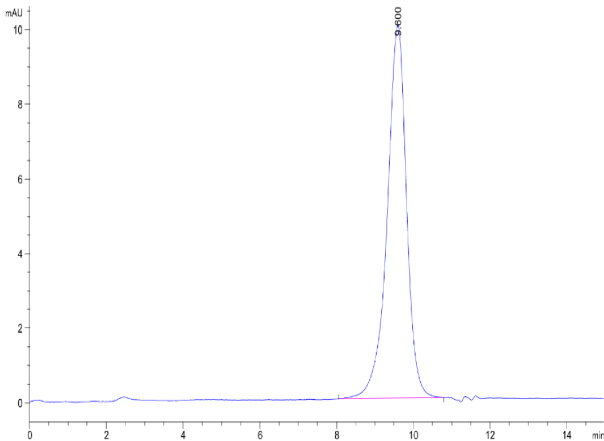
Assay Data

Bis-Tris PAGE



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

SEC-HPLC

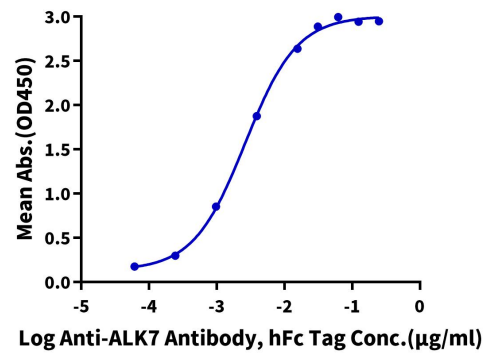


The purity of Mouse ALK-7 is greater than 95% as determined by SEC-HPLC.

Assay Data

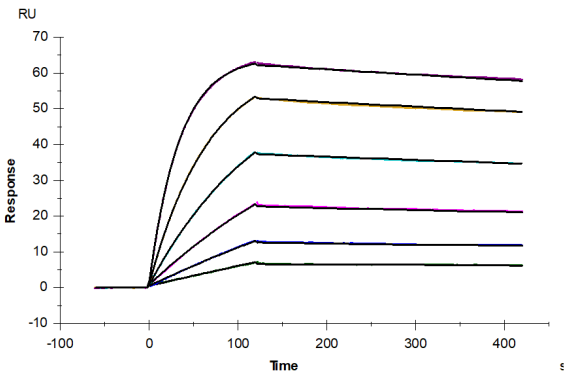
ELISA Data

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



Immobilized Mouse ALK-7, His Tag at 0.5µg/ml(100µl/well) on the plate. Dose response curve for Anti-ALK7 Antibody, hFc Tag with the EC50 of 2.6ng/ml determined by ELISA (QC Test).

SPR Data



Anti-ALK-7 Antibody, hFc Tag captured on CM5 Chip via Protein A can bind Mouse ALK-7, His Tag with an affinity constant of 0.85 nM as determined in SPR assay (Biacore T200).