

Biotinylated Human ALK-7/Activin RIC Protein

Cat. No. ALK-HM407B

Description

Source	Recombinant Biotinylated Human ALK-7/Activin RIC Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Glu21-Glu113.
Accession	Q8NER5-1
Molecular Weight	The protein has a predicted MW of 13.71 kDa. Due to glycosylation, the protein migrates to 20-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	>95% as determined by Bis-Tris PAGE >95% as determined by HPLC

Formulation and Storage

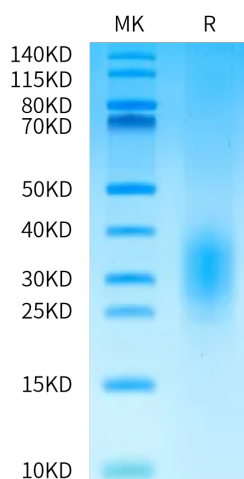
Formulation	Supplied as 0.22 µm filtered solution in 20mM Tris, 150mM NaCl (pH 7.5).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Arterial stiffness is an important feature of diabetic macrovascular complications. 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.

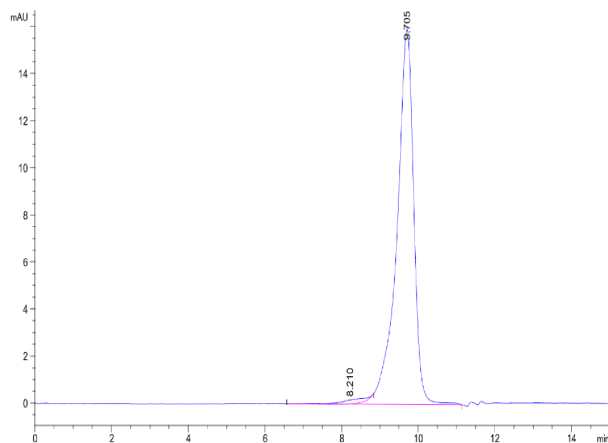
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



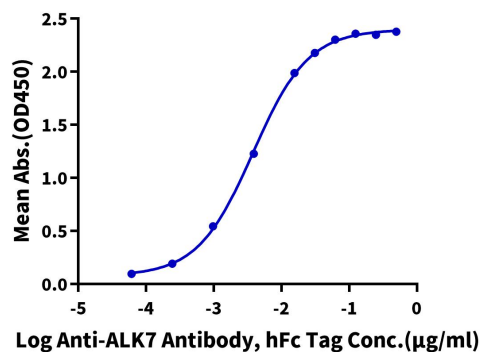
The purity of Biotinylated Human ALK-7 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Biotinylated Human ALK-7, His-Avi Tag ELISA

0.05µg Biotinylated Human ALK-7, His-Avi Tag Per Well



Immobilized Biotinylated Human ALK-7, His-Avi Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-ALK7 Antibody, hFc Tag with the EC50 of 3.8ng/ml determined by ELISA (QC Test).