Biotinylated Human ALK-7 Protein, His,Avitag™ (HPLC verified)

Catalog # AL7-H82E3

Synonyms

ALK-7, ACTR-IC, ACVR1C

Source

Biotinylated Human ALK-7 Protein, His,Avitag (AL7-H82E3) is expressed from human 293 cells (HEK293). It contains AA Glu 21 - Glu 113 (Accession # Q8NER5-1).

Predicted N-terminus: Glu 21

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 13.6 kDa. The protein migrates as 17-33 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

0.7-1.0 as determined by the SABA assay / HABA assay / binding ELISA.

Endotoxin

Less than 1.0 EU per μg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-HPLC.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

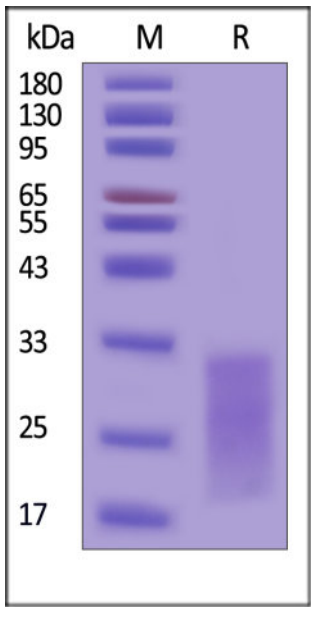
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

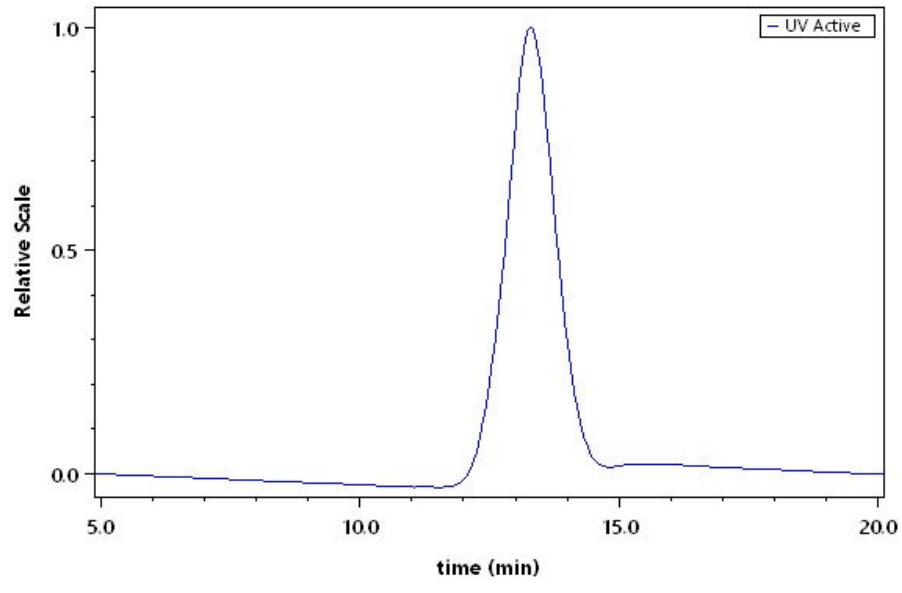
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

SDS-PAGE



Biotinylated Human ALK-7 Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-HPLC



The purity of Biotinylated Human ALK-7 Protein, His,Avitag (Cat. No. AL7-H82E3) was greater than 90% as determined by SEC-HPLC.

Background

ALK-7, also known as ACVR1C , is a Type I receptor for the TGF-beta family of signaling molecules. Upon ligand binding, it initiates intracellular signaling by phosphorylating cytoplasmic SMAD transcription factors. These activated SMADs then translocate to the nucleus to regulate gene expression, either directly or in complex with other transcription factors.

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