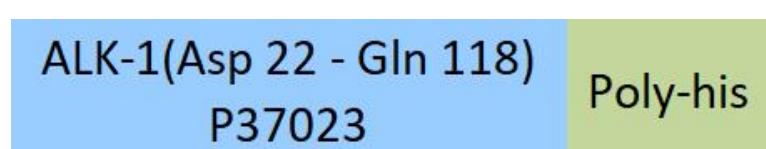


**Synonym**

ACVRL1, ACVRLK1, ALK-1, HHT, HHT2, ORW2, SKR3, TSR-I

**Source**Human ALK-1, His Tag (AL1-H5228) is expressed from human 293 cells (HEK293). It contains AA Asp 22 - Gln 118 (Accession # [P37023](#)).

Predicted N-terminus: Asp 22

**Molecular Characterization**[Other Tags and Version](#) [Biotin & Other Labeled Version](#)

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 12.6 kDa. The protein migrates as 23-28 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.**Endotoxin**Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.**Purity**

&gt;90% as determined by SDS-PAGE.

&gt;90% as determined by SEC-MALS.

**Formulation**Lyophilized from 0.22  $\mu$ m 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.****Storage**

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

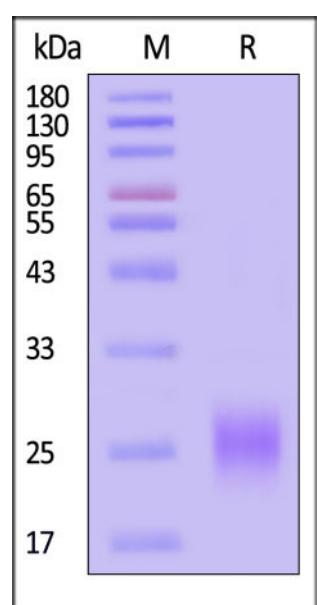
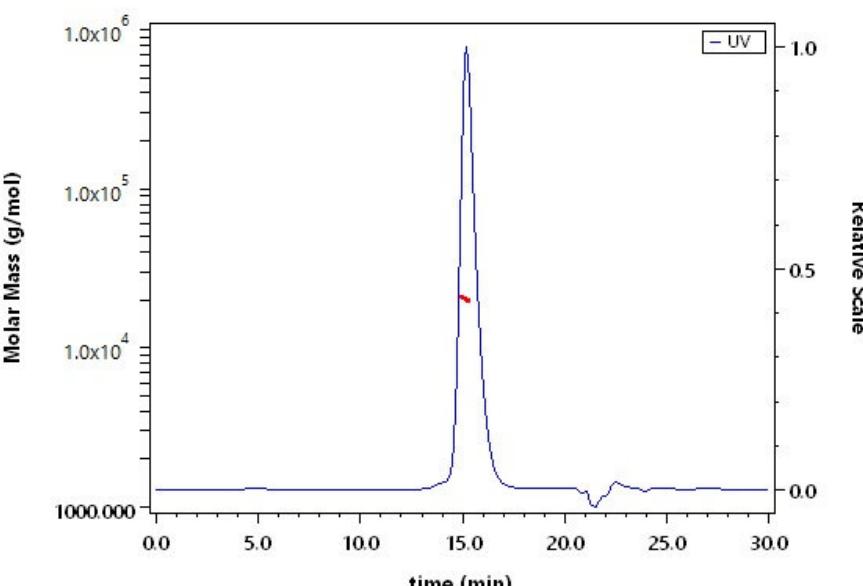
**Please avoid repeated freeze-thaw cycles.**

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****SEC-MALS**

Human ALK-1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of Human ALK-1, His Tag (Cat. No. AL1-H5228) is more than 90% verified by SEC-MALS.

## Background

Serine/threonine-protein kinase receptor R3 is an enzyme that in humans is encoded by the ALK1 gene. ALK1 is a receptor in the TGF beta signaling pathway. ALK1 protein is a receptor in the TGF beta signaling pathway. It plays an important role in vascular development, remodeling, and pathologic angiogenesis, play a role in stabilizing angiogenic vessels and contribute to resistance to anti-VEGF therapies, ALK1 blockade may represent an effective therapeutic opportunity complementary to the current antiangiogenic modalities in the clinic. Recently, researcher found that, ALK1-Fc inhibited BMP9-mediated Id-1 expression in human umbilical vein endothelial cells and inhibited cord formation by these cells on a Matrigel substrate, in a chick chorioallantoic membrane assay, ALK1-Fc reduced vascular endothelial growth factor-, fibroblast growth factor-, and BMP10-mediated vessel formation, and ALK1-Fc treatment reduced tumor burden in mice receiving orthotopic grafts of MCF7 mammary adenocarcinoma cells.

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