

RP01925

Leader in Biomolecular Solutions for Life Science



# Recombinant Rat ALK-1/ACVRL1 Protein

Catalog No.: RP01925 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	25237	P80203

### Tags

C-hFc

### Synonyms

Acvrl1; Acvrlk1; Serine/threonine-protein kinase receptor R3; SKR3; 2.7.11.30; TGF-B superfamily receptor type I; TSR-I

## Product Information

Source	Purification
	≥ 90 % as determined by SDS-PAGE.

### Endotoxin

< 0.01 EU/μg of the protein by LAL method

### Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Background

ALK-1/ACVRL1, Type I receptor for TGF-beta family ligands BMP9/GDF2 and BMP10 and important regulator of normal blood vessel development. On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. May bind activin as well.

## Basic Information

### Description

Recombinant Recombinant Rat ALK-1/ACVRL1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys21-Ala118) of Rat ALK-1/ACVRL1 (Accession #NP\_071886.1) fused with a hFc tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Rat ALK-1 (Catalog #RP01925) at 4 μg/mL (100 μL/well) can bind Human ACVR2B (Catalog #RP00153) with a linear range of 20-989.42 ng/mL.

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

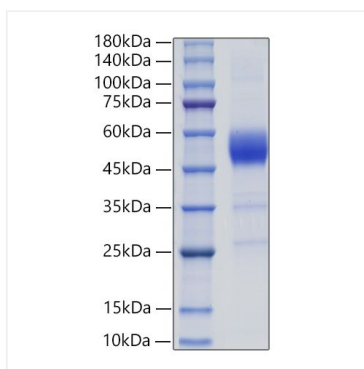
### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

\* For your safety and health, please wear a lab coat and disposable gloves when handling.

## Validation Data

---



Recombinant Rat ALK-1/ACVRL1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.