

# Recombinant human ALK-1 protein

Catalog Number: ATGP3205

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

22-118aa

### UniProt No.

P37023

### NCBI Accession No.

NP\_000011.2

### Alternative Names

ACVRL1, ACVRLK1, ALK-1, ALK1, HHT, HHT2, ORW2, SKR3, TSR-I

## PRODUCT SPECIFICATION

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### Molecular Weight

11.5 kDa (103aa)

### Concentration

0.25mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

ACVRL1, also known as serine/threonine-protein kinase receptor R3, is a membrane-anchored proteoglycan whose core protein binds TGF $\beta$ 3 and has a short cytoplasmic domain with no discernible signaling structure. Also, this protein shares similar domain structures with other closely related ALK or activin receptor-like kinase proteins that form a subfamily of receptor serine/threonine kinases. Recombinant human ACVRL1, fused to His-

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tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

DPVKPSRGPL VTCTCESPHC KGPTCRGAWC TVVLVREEGR HPQEHRGCGN LHRELCRGRP TEFVNHYCCD SHLCNHNVSL  
VLEATQPPSE QPGTDGQ<HHH HHH>

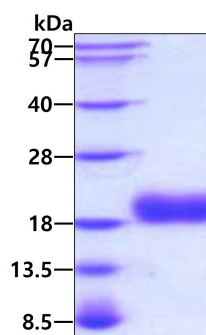
### General References

Chien CY., et al. (2013) Otolaryngol Head Neck Surg. 148(6):965-973.

Yu Q., et al. (2013) PLoS ONE. 8(2):E58031.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain