



[Go to Product page](#)

## Datasheet for ABIN7194132 **ACVR1 Protein (His tag)**

### Overview

Quantity:	100 µg
Target:	ACVR1 (ACRV1)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACVR1 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human ALK-2/ACVR1 Protein (Baculovirus, His Tag)
Sequence:	Met 1-Val 124
Characteristics:	A DNA sequence encoding the extracellular domain (Met 1-Val 124) of human ALK2 (Q04771) (Met 1-Val 124) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 93 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	ACVR1 (ACRV1)
Alternative Name:	ALK-2/ACVR1 ( <a href="#">ACRV1 Products</a> )
Background:	Background: ALK-2, also termed as ACVR1, was initially identified as an activin type I receptor because of its ability to bind activin in concert with ActRII or ActRIIB. ALK-2 is also identified as a BMP type I receptor. It has been demonstrated that ALK-2 forms complex with either the

## Target Details

---

BMP-2/7-bound BMPR-II or ACVR2A /ACVR2B. ALK-1 and ALK-2 presenting in the yeast *Saccharomyces cerevisiae* are two haspin homologues. Both ALK-1 and ALK-2 exhibit a weak auto-kinase activity in vitro, and are phosphoproteins in vivo. ALK-1 and ALK-2 levels peak in mitosis and late-S/G2. Control of protein stability plays a major role in ALK-2 regulation. The half-life of ALK-2 is particularly short in G1. Overexpression of ALK-2, but not of ALK-1, causes a mitotic arrest, which is correlated to the kinase activity of the protein. This suggests a role for ALK-2 in the control of mitosis. Endoglin is phosphorylated on cytosolic domain threonine residues by the TGF-beta type I receptors ALK-2 and ALK-5 in prostate cancer cells. Endoglin did not inhibit cell migration in the presence of constitutively active ALK-2. Defects in ALK-2 are a cause of fibrodysplasia ossificans progressiva (FOP).

Synonym: Activin Receptor Type-1, Activin Receptor Type I, ACTR-I, Activin Receptor-Like Kinase 2, ALK-2, Serine/Threonine-Protein Kinase Receptor R1, SKR1, TGF-B Superfamily Receptor Type I, TSR-I, ACVR1, ACVRLK2,ACVR1A,ACVRLK2,ALK2,FOP,SKR1

---

Molecular Weight: 12.8kDa

---

UniProt: [Q04771](#)

## Application Details

---

Restrictions: For Research Use only

## Handling

---

Format: Frozen, Liquid

---

Buffer: Supplied as sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 10 % glycerol

---

Storage: -20 °C

---

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.