

Datasheet for ABIN7597352

Activin A Receptor Type IB/ALK-4 Protein (AA 24-126) (Fc Tag)



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Overview

Quantity:	10 µg
Target:	Activin A Receptor Type IB/ALK-4 (ACVR1B)
Protein Characteristics:	AA 24-126
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Activin A Receptor Type IB/ALK-4 protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant human ACVR1B Protein with C-terminal human Fc tag
Sequence:	ACVR1B(Ser24-Glu126) hFc(Glu99-Ala330)
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	Activin A Receptor Type IB/ALK-4 (ACVR1B)
Alternative Name:	ACVR1B (ACVR1B Products)
Background:	<p>ALK4, SKR2, ACTR1B, ACVRLK4</p> <p>This gene encodes an activin A type IB receptor. Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of</p>

Target Details

receptor serine kinases which include at least two type I and two type II receptors. This protein is a type I receptor which is essential for signaling. Mutations in this gene are associated with pituitary tumors. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Jun 2010]

Molecular Weight: predicted molecular mass of 37.6 kDa after removal of the signal peptide. The apparent molecular mass of ACVR1B-hFc is 35-55 kDa due to glycosylation.

UniProt: [P36896](#)

Application Details

Application Notes: Extracellular Domain Proteins (ECD) can be used as:

- Immunogens for antibody drug development
- Reagents used for CAR-T positive cell monitoring
- Reagents for antibody screening and functional testing
- Reagents for antibody affinity measurement

Comment: The protein was made using HEK293 mammalian cell secretion expression system to ensure the close-to-native structures and post-translational modifications of the target protein.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization.

Storage: -20 °C,-80 °C

Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).
Lyophilized proteins are shipped at ambient temperature.

Expiry Date: 12 months