

Datasheet for ABIN7597275

ACVR2B Protein (AA 19-137) (Fc Tag)[Go to Product page](#)

Overview

Quantity:	10 µg
Target:	ACVR2B
Protein Characteristics:	AA 19-137
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACVR2B protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant mouse ACVR2B protein with C-terminal human Fc tag
Sequence:	Mouse ACVR2B(Ser19-Thr137) 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:	ACVR2B
Alternative Name:	ACVR2B (ACVR2B Products)
Background:	<p>ActRIIB, AI047905, 4930516B21Rik</p> <p>Enables activin binding activity, growth factor binding activity, and protein kinase activity.</p> <p>Involved in blood vessel remodeling, negative regulation of cold-induced thermogenesis, and vasculature development. Acts upstream of or within several processes, including animal organ</p>

Target Details

development, embryonic morphogenesis, and insulin secretion. Predicted to be located in cytoplasm. Predicted to be part of activin receptor complex. Predicted to be active in plasma membrane. Is expressed in several structures, including alimentary system, egg cylinder, genitourinary system, nervous system, and sensory organ. Used to study right atrial isomerism and visceral heterotaxy. Human ortholog(s) of this gene implicated in visceral heterotaxy. Orthologous to human ACVR2B (activin A receptor type 2B). [provided by Alliance of Genome Resources, Apr 2022]

Molecular Weight: predicted molecular mass of 39.8 kDa after removal of the signal peptide. The apparent molecular mass of mACVR2B-hFc is 55-70 kDa due to glycosylation.

UniProt: [P27040](#)

Pathways: [Hormone Transport](#), [Cancer Immune Checkpoints](#)

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