

Datasheet for ABIN7597274

ACVR2A Protein (AA 20-135) (Fc Tag)



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Overview

Quantity:	10 µg
Target:	ACVR2A
Protein Characteristics:	AA 20-135
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACVR2A protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant mouse ACVR2A protein with C-terminal human Fc tag
Sequence:	Mouse ACVR2A(Ala20-Pro135) 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:	ACVR2A
Alternative Name:	ACVR2A (ACVR2A Products)
Background:	<p>Acvr2, ActrIIa, TactrII</p> <p>Enables several functions, including BMP receptor activity, PDZ domain binding activity, and activin binding activity. Acts upstream of or within several processes, including Sertoli cell proliferation, copulation, and embryonic skeletal system development. Located in cell surface.</p>

Target Details

Is expressed in several structures, including central nervous system, early conceptus, gonad, gut, and sensory organ. Used to study Weissenbacher-Zweymuller syndrome. Human ortholog(s) of this gene implicated in colon cancer. Orthologous to human ACVR2A (activin A receptor type 2A). [provided by Alliance of Genome Resources, Apr 2022]

Molecular Weight: predicted molecular mass of 39.6 kDa after removal of the signal peptide. The apparent molecular mass of mACVR2A-hFc is 35-70 kDa due to glycosylation.

UniProt: [P27038](#)

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