

[Go to Product page](#)

Datasheet for ABIN1880618

ACVR2A Protein (AA 20-134) (Fc Tag,His tag)

Overview

Quantity:	50 µg
Target:	ACVR2A
Protein Characteristics:	AA 20-134
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ACVR2A protein is labelled with Fc Tag,His tag.

Product Details

Purpose:	Recombinant Human Activin Receptor 2A/Activin RIIA/ACVR2A (C-Fc-6His)
Sequence:	<p>AILGRSETQE CLFFNANWEK DRTNQTGVPE CYGDKDKRRH CFATWKNISG SIEIVKQGCW</p> <p>LDDINCYDRT DCVEKKDSPE VYFCCCEGNM CNEKFSYFPE MEVTQPTSNP VTPKPVDDIE</p> <p>GRMDEPKSCD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVDVSHEDP</p> <p>EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ DWLNGKEYKC KVSNAKALPAP</p> <p>IEKTISKAKG QPREPQVYTL PPSREEMTKN QVSLTCLVKG FYPSDIAVEW ESNGQPENNY</p> <p>KTTTPVLDSG GSFFLYSKLT VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL SLSPGKHHHH HH</p>
Characteristics:	Recombinant Human Activin Receptor Type-2A/Activin RIIA is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Ala20-Pro134) of Human Activin RIIA fused with a FC-6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered

Product Details

Endotoxin Level: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test

Target Details

Target: ACVR2A

Alternative Name: Activin Receptor Type-2A/Activin RIIA ([ACVR2A Products](#))

Sub Type: Fusionprotein

Background: Activin Receptor Type-2A is a protein that in humans is encoded by the ACVR2A gene. ACVR2A is an activin type 2 receptor. This gene encodes activin A type II 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 receptor serine kinases which include at least two type I (I and IB) and two type II (II and IIB) receptors. These receptors are all transmembrane proteins, composed of a ligand-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytoplasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signaling, and type II receptors are required for binding ligands and for expression of type I receptors. Type I and II receptors form a stable complex after ligand binding, resulting in phosphorylation of type I receptors by type II receptors. Type II receptors are considered to be constitutively active kinases.

Alternative Names: Activin Receptor Type-2A, Activin Receptor Type IIA, ACTR-IIA, ACTRIIA, ACVR2A, ACVR2

Molecular Weight: 41.2 kDa

UniProt: [P27037](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 μg/mL.
Dissolve the lyophilized protein in ddH₂O.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Handling

Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months