

Active Recombinant Human/Cynomolgus ACVR2A Protein, Fc Tagged

Cat. No. ACVR2A-11237H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human/Cynomolgus Activin RIIA Protein, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Ala 20-Pro 135 (Accession # P27037-1). This protein carries a human IgG1 Fc tag at the N-terminus. Predicted N-terminus: Pro
Species	Human/Cynomolgus
Source	HEK293
ProteinLength	20-135 aa
Description	Activin receptor type-2A (ACVR2A) is also known as Activin receptor type IIA, ACTRIIA, ACTRIIA and ACVR2, which is single-pass type I membrane protein. ACVR2A belongs to the protein kinase superfamily, TKL Ser/Thr protein kinase family and TGFB receptor subfamily. On ligand binding, ACVR2A can form a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. ACVR2A is Receptor for activin A, activin B and inhibin A as well. Several type I I activin receptors have been identified and bind to different activins with different affinities.
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 with trehalose as protectant.
Bio-activity	Immobilized Human Activin A Protein, Tag Free at 5

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	µg/mL (100 µL/well) can bind Human/Cynomolgus Activin RIIA/ACVR2A Protein, Fc Tag with a linear range of 0.2-8 ng/mL.
Molecular Mass	The protein has a calculated MW of 39.9 kDa. The protein migrates as 50-60 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/µg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	ACVR2A activin A receptor, type IIA [Homo sapiens (human)]
Official Symbol	ACVR2A
Synonyms	ACVR2A; activin A receptor, type IIA; activin A receptor, type II, ACVR2; activin receptor type-2A; ACTRII; ACVR2;
Gene ID	92

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mRNA Refseq	NM_001616
Protein Refseq	NP_001607
MIM	102581
UniProt ID	P27037

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