

Active Recombinant Mouse Acvr2a Protein, mFc tagged

Cat. No. Acvr2a-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Acvr2a Protein with mFc tag was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	21-134aa
Description	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. 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).
Bio-activity	The ED50 is 0.1689 ng/mL in the presence of 3 ng/mL recombinant Activin. The activity was measured by its ability to neutralize Activin-mediated inhibition on K562 cell proliferation.
Molecular Mass	The protein has a calculated MW of 40 kDa.
AA Sequence	ILGRSETQECLFFNANWERDRTNQTGVEPCYGDKDKRRHCFATWKNISGSIEIVKQ GCWLDDINCYDRTDCIEKKDSPEVYFCCCEGNMCNEKFSYFPEMEVTQPTSNPVTP

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KPIEGRMDPEPRGPTIKPCPPCKCPAPNLLGGPSVFIFPPKIKDVLMSLSPIVTCVVV
 DVSEDDPDVQISWVNNVEVHTAQQTQTHREDYNSTLRVVSALPIQHQDWMSGKEF
 KCKVNNKDLPAPIERTISKPKGSVRAPQVYVLPPEEEMTKKQVTLTCMVTDFMPED
 IYVEWTNNGKTELNYKNTEPVLDSDGSYFMYSKLRVEKKNWVERNSYSCSVVHEGL
 HNHHTTKSFSRTPGK

Endotoxin < 0.1 EU/μg

Purity < 95% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Concentration 6.92 mg/mL by BCA

Storage Buffer Sterile PBS, pH 7.4

GENE INFORMATION

Gene Name [Acvr2a activin receptor IIA \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Acvr2a](#)

Synonyms ACVR2A; activin receptor IIA; activin receptor type-2A; ACTR-IIA; activin receptor type IIA; Acvr2; ActrIIa; TactrII;

Gene ID [11480](#)

mRNA Refseq [NM_007396](#)

Protein Refseq [NP_031422](#)

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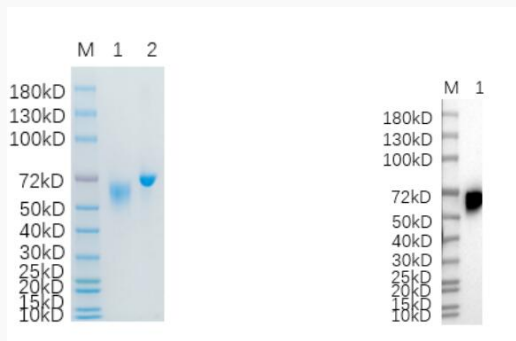
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UniProt ID

P27038

Reducing 12% SDS-PAGE (CBB stained) and WB (Anti-Mouse IgG Goat Antibody) analysis profile of purified Acvr2a-01M



1. Acvr2a-01M
2. BSA

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