

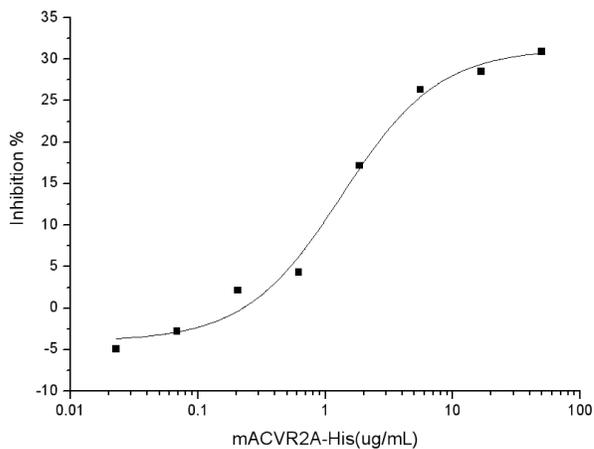
Acvr2a

Recombinant Mouse Activin Receptor Type-2A (His Tag)

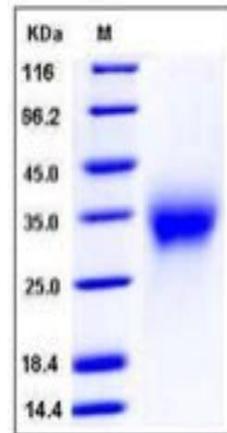
Catalog No.	CRM662A-His CRM662B-His	Quantity:	100 µg 200 µg
Alternate Names:	Activin receptor type-2A, Activin receptor type IIA, ACTR-IIA		
Description:	ACVR2A and ACVR2B are two activin type II receptors. ACVR2A has been shown to interact with INHBA, SYNJ2BP and ACVR1B. The bovine ACVR2A gene encodes a protein of 513 amino acids which is highly homologous (approximately 98% identity) to the rat, mouse, and human ACVR2A proteins. Inactivation of ACVR2A is a common event in prostate cancer cells suggesting it may play an important role in the development of prostate cancer. The ACVR2A gene is a putative tumor suppressor gene that is frequently mutated in microsatellite-unstable colon cancers (MSI-H colon cancers). Frameshift mutation of ACVR2A may contribute to MSI-H colon tumorigenesis via disruption of alternate TGF-beta effector pathways.		
UniProt ID:	P27038		
Accession Number:	NP_031422.3		
Protein Construction:	A DNA sequence encoding the extracellular domain of mouse ACVR2A (Met 1-Pro 134) was expressed, with a C-terminal polyhistidine tag.		
Source:	HEK293 Cells		
Formulation:	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The secreted rmACVR2A consists of 126 aa with a predicted MW of 14.8 kDa and migrates at ~35 kDa in SDS-PAGE under reducing conditions, due to glycosylation.		
Purity:	> 97 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method		
Biological Activity:	Measured by its ability to neutralize Activin-mediated inhibition on MPC11 cell proliferation. The ED50 for this effect is typically 0.6-3 µg/mL in the presence of 10 ng/ml Recombinant Human Activin A.		
Predicted N-terminal:	Ala 20		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		
Storage & Stability:	Stable for up to 1 year from date of receipt at -20°C to -80°C After reconstitution, store working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		



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SDS-PAGE



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