## Recombinant Mouse ACVRL1 Protein(His Tag)

## Catalog Number: PDMM100096

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description			
Species	Mouse		
Source	Mammalian-derived Mouse ACVRL1 protein Asp23-Pro119, with an C-terminal His		
Calculated MW	10.5 kDa		
Observed MW	20-30 kDa		
Accession	Q61288		
Bio-activity	Not validated for activity		
Properties			
Purity	>90% as determined by reducing SDS-PAGE.		
Endotoxin	< 1.0 EU/mg of the protein as determined by the LAL method		
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of		
	reconstituted samples are stable at $< -20^{\circ}$ C for 3 months.		
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.		
Formulation	Lyophilized from a 0.2 $\mu m$ filtered solution in PBS with 5% Trehalose and 5%		
	Mannitol.		
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of		
	0.5 mg/mL. Concentration is measured by UV-Vis.		

## Data

kDa	м	R
80	-	
60	-	
40	-	
30	-	1
20	-	

SDS-PAGE analysis of Mouse ACVRL1 proteins, 2 µg/lane of Recombinant Mouse ACVRL1 proteins was resolved with an SDS-PAGE under reducing conditions, showing bands at 10.5KD

## Background

This gene encodes a type I cell-surface receptor for the TGF-beta superfamily of ligands. It shares with an other type I receptors a high degree of similarity in serine-threonine kinase subdomains, a glycine-and serine-rich region (called the GS domain) preceding the kinase domain, and a short C-terminal tail. The encoded protein, sometimes termed ALK1, shares similar domain structures with an other closely related ALK or activin receptor-like kinase proteins that form a subfamily of receptor serine/threonine kinases. Mutations in this gene are associated with an hemorrhagic telangiectasia type 2, also known as Rendu-Osler-Weber syndrome 2.

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