

Human ACVR1B/Activin RIB Protein

Cat. No. ALK-HM104

Description

Source	Recombinant Human ACVR1B/Activin RIB Protein is expressed from HEK293 with His tag at the C-terminus. It contains Ser24-Glu126.
Accession	P36896-1
Molecular Weight	The protein has a predicted MW of 12.51 kDa. Due to glycosylation, the protein migrates to 15-25 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

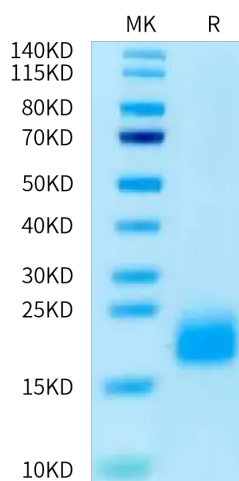
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Activin A receptor type I (ACVR1) encodes for a bone morphogenetic protein type I receptor of the TGF β receptor superfamily. It is involved in a wide variety of biological processes, including bone, heart, cartilage, nervous, and reproductive system development and regulation. Moreover, ACVR1 has been extensively studied for its causal role in fibrodysplasia ossificans progressiva (FOP), a rare genetic disorder characterised by progressive heterotopic ossification. ACVR1 is linked to different pathologies, including cardiac malformations and alterations in the reproductive system.

Assay Data

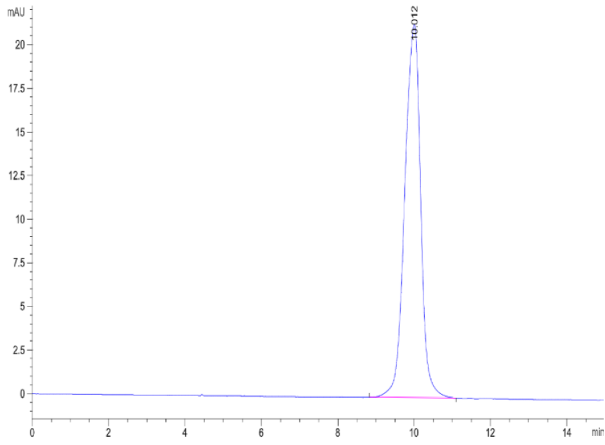
Tris-Bis PAGE



Human ACVR1B on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



The purity of Human ACVR1B is greater than 95% as determined by SEC-HPLC.