

Human ACVR1B/ALK-4 Protein

Cat. No. ALK-HM104

Description

| | |
|-------------------------|---|
| Source | Recombinant Human ACVR1B/ALK-4 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

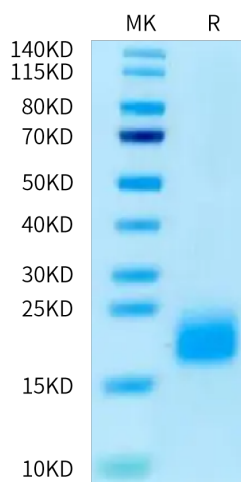
| | |
|--------------------|---|
| Formulation | Supplied as 0.22 μm filtered solution in PBS (pH 7.4). |
| Storage | Valid for 12 months from date of receipt when stored at -80°C . Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

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.

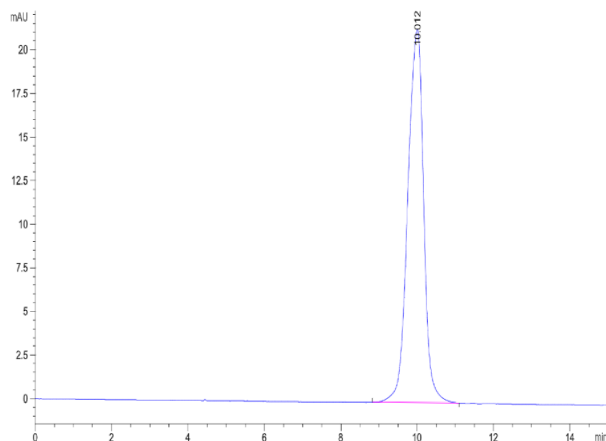
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



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