

# Human ACVR2A Protein; His Tag

## Product Information

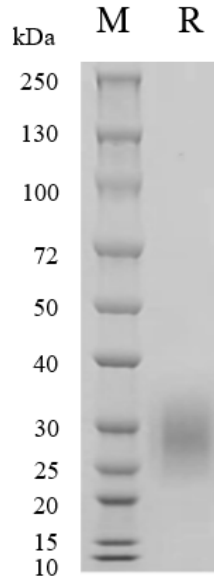
<b>Product Name</b>	Human ACVR2A Protein; His Tag
<b>Storage temp.</b>	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
<b>Catalog# / Size</b>	<b>GM-87256RP-100 / 100 <math>\mu\text{g}</math></b> <b>GM-87256RP-1000 / 1 mg</b>

## Protein Information

<b>Alternative Names</b>	Activin receptor type IIA,ACTRIIA
<b>Source</b>	Human ACVR2A Protein; His Tag (GM-87256RP) is expressed from human 293 cells (HEK-293). It contains AA Ala20-Pro134 (Accession # P27037). This protein carries a His tag at the C-terminus.
<b>Purity</b>	> 95% as determined by SDS-PAGE
<b>Endotoxin</b>	< 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay
<b>Predicted Mol Mass</b>	13.4 KDa
<b>Formulation</b>	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.4.
<b>Description</b>	<p>The ACVR2A protein is a receptor-type serine/threonine kinase and belongs to the bone morphogenetic protein receptor family. The ACVR2A protein plays an important role in cell signaling and regulates biological processes such as cell proliferation, differentiation, and apoptosis.</p> <p>The ACVR2A protein is a transmembrane protein that contains an extracellular domain, a transmembrane domain, and an intracellular kinase domain. During signal transduction, the ACVR2A protein binds to its ligand, activates its kinase activity, phosphorylates downstream signaling molecules, and triggers a series of signaling pathways that affect cell function.</p> <p>The ACVR2A protein plays an important role in embryonic development, organ formation, bone growth and repair, immune regulation, and other physiological processes. It is also associated with the occurrence and development of various diseases such as cancer, inflammatory diseases, and autoimmune diseases. Therefore, the ACVR2A protein is considered an important therapeutic target and can be used to develop drugs for related diseases.</p>

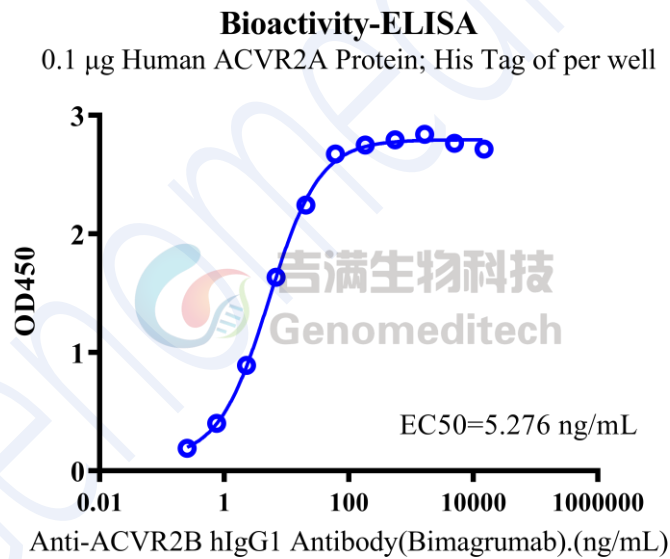
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## SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA



Human ACVR2A Protein; His Tag (Catalog # GM-87256RP) was immobilized at 1  $\mu$ g/ml (100  $\mu$ L/well). Increasing concentrations of Anti-ACVR2B hIgG1 Antibody(Bimagrumab) (Catalog # GM-51148AB) were added.