

Human ACVR2B Protein; His Tag

Product Information

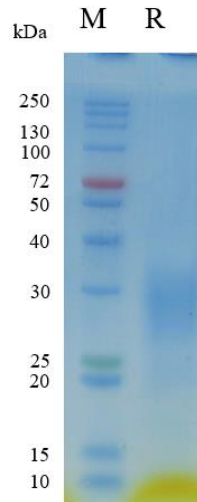
| | |
|------------------------|---|
| Product Name | Human ACVR2B Protein; His Tag |
| Storage temp. | Store at $\leq -70^{\circ}\text{C}$, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |
| Catalog# / Size | GM-84198RP-100 / 100 μg GM-84198RP-1000 / 1 mg |

Protein Information

| | |
|---------------------------|---|
| Alternative Names | ACVR2B, Activin RIIB,ACTRIIB,MGC116908 |
| Source | Human ACVR2B Protein; His Tag (GM-84198RP) is expressed from human 293 cells (HEK-293). It contains AA Ser19-Thr137 (Accession # Q13705-1). This protein carries a His tag at the C-terminus. |
| Purity | > 90% as determined by SDS-PAGE |
| Endotoxin | < 1 EU/ μg , determined by LAL gel clotting assay |
| Predicted Mol Mass | 14.5 KDa |
| Formulation | Supplied as a 0.2 μm filtered solution of PBS, pH7.4. |
| Description | <p>Activin receptor type-2B (ACVR2B) is a transmembrane receptor protein that belongs to the TGF-beta superfamily and is involved in the signaling pathways that regulate various cellular processes. It functions as a receptor for activin, a protein that plays a role in the regulation of cell growth, differentiation, and apoptosis. ACVR2B is particularly important in the context of skeletal and muscle development, as it is involved in the regulation of bone and muscle growth and repair.</p> <p>In addition to its role in normal physiological processes, ACVR2B has garnered significant interest in the field of regenerative medicine and muscle-related conditions. Research has shown that the manipulation of ACVR2B signaling pathways may have therapeutic potential for conditions such as muscle wasting, muscle degeneration, and muscle injuries. This has led to investigations into the development of potential treatments targeting ACVR2B for muscle-related disorders.</p> <p>Overall, ACVR2B is a protein with diverse roles in cellular signaling, development, and disease, and ongoing research continues to uncover its potential as a therapeutic target for various conditions, including muscle-related disorders and cancer.</p> |

Version:3.3 Revision Date:25/12/2023

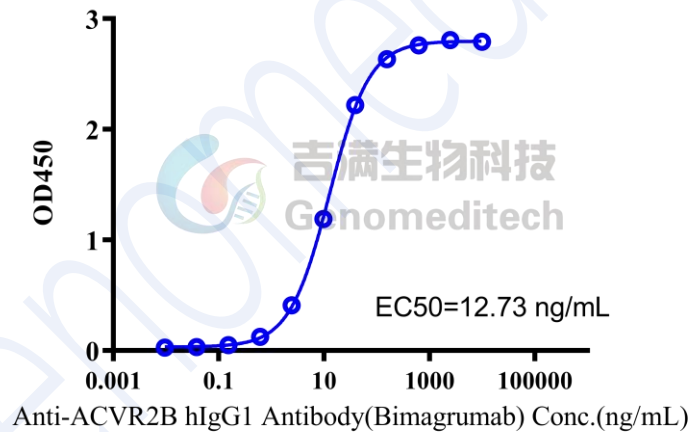
SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA

Human ACVR2B Protein; His Tag ELISA 0.5 μ g Human ACVR2B Protein; His Tag of per well



Human ACVR2B Protein; His Tag (Catalog # GM-84198RP) was immobilized at 5 μ g/ml (100 μ L/well). Increasing concentrations of Anti-ACVR2B hIgG1 Antibody (Bimagrumab) (Catalog # GM-51148AB) were added.