

## ACVR1B Human

**Description:** ACVR1B Human Recombinant produced in HEK-293 cells is a single, glycosylated, polypeptide chain having a molecular weight of 38.2 kDa though on SDS-PAGE migrates at about 46 kDa due to the glycosylation. The ACVR1B sequence (24-126 a.a) corresponds to the extracellular region of mature Human protein, fused to the Fc region of Human IgG1. The ACVR1B is purified by proprietary chromatographic techniques.

**Catalog #:** PKPS-373

For research use only.

**Synonyms:** EC 2.7.11.30, ALK4, SKR2, ACVRLK4, ActR1B, Activin receptor type-1B.

**Source:** HEK293 Cells.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** SGPRGVQALL CACTSCLQAN YTCETDGACM VSIFNLDGME  
HHVRTCIPKV ELVPAGKPFY CLSSEDLRNT HCCYTDYCNR IDLRVPSGHL KEPEHPSMWG  
PVEENLYFQG GSGTKLDKTH TCPPCPAPEL LGGPSVFLFP PKPKDTLMIS RTPEVTCVVV  
DVSHGDPEVK FNWYVDGVEV HNAKTKPREE QYNSTYRVVS VLTVLHQDWL NGKEYKCKVS  
NKALPAPIEK TI

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

The ACVR1B protein was lyophilized from a 0.2

### Stability:

Lyophilized ACVR1B although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution ACVR1B should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Solubility:

It is recommended to reconstitute the lyophilized ACVR1B in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

### Introduction:

ACVR1B on ligand binding, creates a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. ACVR1B Phosphorylates TTRAP.

### Biological Activity:

In a functional ELISA, immobilized recombinant Human ACVR1B (0.2g/mL) will bind recombinant Human ACVR1B with a linear range of 0.8 - 100ng/mL.

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