

PRODUCT INFORMATION

ACVR2B **Target**

Synonyms HTX4; ACTRIIB; ActR-IIB

Recombinant human ACVR2B Protein with C-Description

terminal human Fc tag

Delivery In Stock **Uniprot ID** Q13705 **Expression Host** HFK293

Tag C-Human Fc tag

Molecular Characterization

Molecular Weight

Storage & Shipping

ACVR2B(Ser19-Thr137) hFc(Glu99-Ala330)

The protein has a predicted molecular mass of

39.8 kDa after removal of the signal peptide. The apparent molecular mass of ACVR2B-hFc is approximately 55-70 kDa due to glycosylation. The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

Purity

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % Formulation & Reconstitution

- 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store

at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I (I and IB) and two type II (II and IIB) receptors. These receptors are all transmembrane proteins, composed of a ligand binding extracellular demain with exercise ligand-binding extracellular domain with cysteinerich region, a transmembrane domain, and a

Background

cytoplasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signaling; and type II receptors are required for binding ligands and for expression of type I receptors. Type I and II receptors form a stable complex after ligand binding, resulting in phosphorylation of type I receptors by type II receptors. Type II receptors are considered to be constitutively active kinases. This gene encodes activin A type IIB receptor, which displays a 3- to 4-fold higher affinity for the ligand than activin A type II receptor. [provided by RefSeq, Jul 2008]

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Usage Research use only Conjugate Unconjugated

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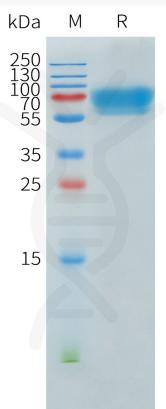


Figure 1. Human ACVR2B Protein, hFc Tag on SDS-PAGE under reducing condition.

Human ACVR2B, hFc Tagged protein ELISA

0.2 μg of Human ACVR2B, hFc tagged protein per well

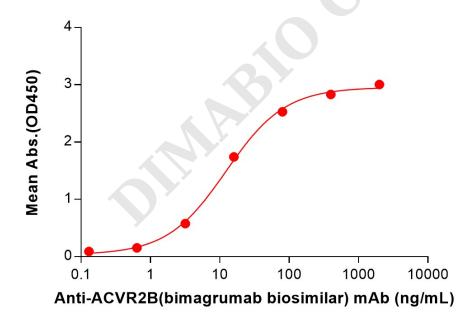


Figure 2. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) Human ACVR2B Protein, hFc Tag (PME101551) can bind Anti-ACVR2B(bimagrumab biosimilar) mAb (BME100228) in a linear range of 0.64–80 ng/mL.

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