

**PRODUCT INFORMATION**

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| <b>Target</b>                           | ACVR2A   |
| <b>Synonyms</b>                         | ACVR2; ACTRII  |
| <b>Description</b>                      | Biotinylated Recombinant human ACVR2A(20-135) Protein with N-terminal 10×His Avi tag   |
| <b>Delivery</b>                         | In Stock   |
| <b>Uniprot ID</b>                       | P27037   |
| <b>Expression Host</b>                  | HEK293   |
| <b>Tag</b>                              | N-10×His Avi Tag   |
| <b>Molecular Characterization</b>       | 10xHis Avi tag ACVR2A(Ala20-Pro135)  |
| <b>Molecular Weight</b>                 | The protein has a predicted molecular mass of 16.6 kDa after removal of the signal peptide.  |
| <b>Purity</b>                           | The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.   |
| <b>Formulation &amp; Reconstitution</b> | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.   |
| <b>Storage&amp;Shipping</b>             | 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.   |
| <b>Sterility</b>                        | Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.  |
| <b>Background</b>                       | This gene encodes a receptor that mediates the functions of activins, which are members of the transforming growth factor-beta (TGF-beta) superfamily involved in diverse biological processes. The encoded protein is a transmembrane serine-threonine kinase receptor which mediates signaling by forming heterodimeric complexes with various combinations of type I and type II receptors and ligands in a cell-specific manner. The encoded type II receptor is primarily involved in ligand-binding and includes an extracellular ligand-binding domain, a transmembrane domain and a cytoplasmic serine-threonine kinase domain. This gene may be associated with susceptibility to preeclampsia, a pregnancy-related disease which can result in maternal and fetal morbidity and mortality. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jun 2013] |
| <b>Usage</b>                            | Research use only  |
| <b>Conjugate</b>                        | Biotinylated   |



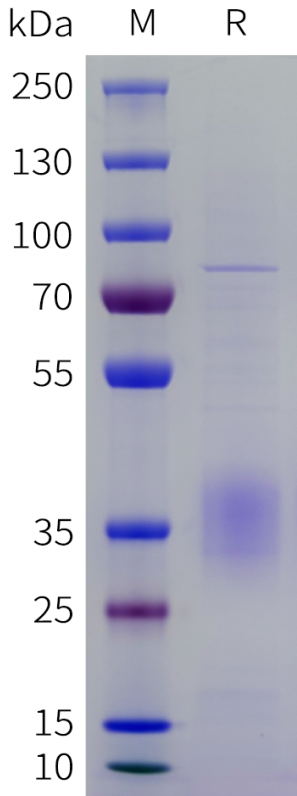


Figure 1. Biotinylated Human ACVR2A(20-135) Protein, His Tag on SDS-PAGE under reducing condition.

### Biotinylated Human ACVR2A(20-135) , His Tagged protein ELISA

0.2 µg of Anti-ACVR2B(bimagrumab biosimilar) mAb per well

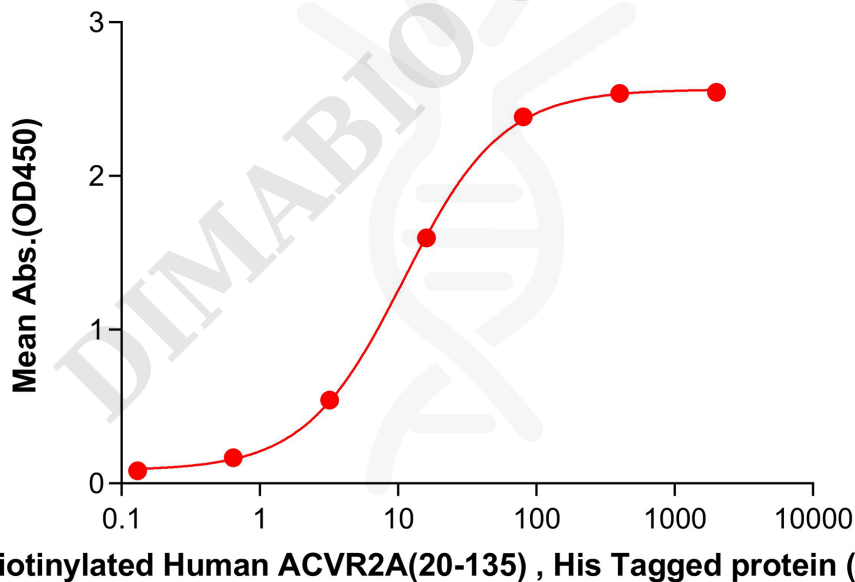


Figure 2. ELISA plate pre-coated by 2 µg/mL (100 µL/well) Anti-ACVR2B(bimagrumab biosimilar) mAb (BME100228) can bind Biotinylated Human ACVR2A(20-135) Protein, His Tag (PME101716B) in a linear range of 3.2-16 ng/mL.

