PRODUCT INFORMATION

Target	ACVR2A
Synonyms	ACVR2; ACTRII
Description	Recombinant human ACVR2A(20-135) Protein with N-terminal 10×His tag
Delivery	In Stock
Uniprot ID	P27037
Expression Host	HEK293
Tag	N-10×His tag
Molecular Characterization	10×His tag ACVR2A(Ala20-Pro135)
Molecular Weight	The protein has a predicted molecular mass of 14.8 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	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.
Storage&Shipping	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.
Background	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]
Usage	Research use only
Conjugate	Unconjugated

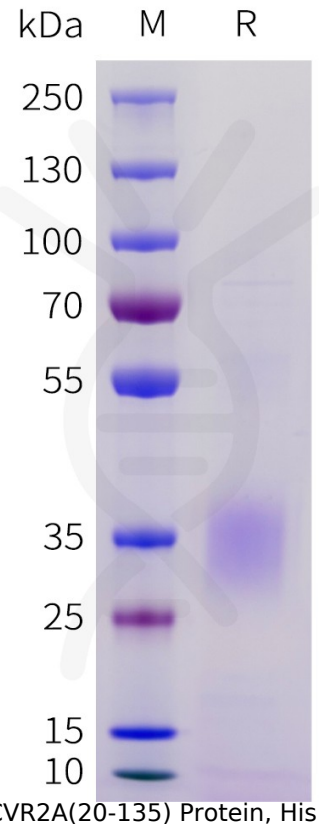

Figure 1. Human ACVR2A(20-135) Protein, His Tag on SDS-PAGE under reducing condition.