

## Recombinant Active Human ACVR2A Protein, His-tagged

Cat. No. ACVR2A-01H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant human ACVR2A (161-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal His tag.

**Species** Human

**Source** Insect Cells

**ProteinLength** 161-end a.a.

**Description** 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.

**Molecular Mass** Approx 47 kDa

**Purity** > 90%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Stability</b>	One year at -70 centigrade from data of shipment.
<b>Storage</b>	Store product at -70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>Concentration</b>	0.1 µg/µL
<b>Storage Buffer</b>	Recombinant protein stored in 50 mM sodium phosphate, pH 7.0, 300 mM NaCl, 150 mM imidazole, 0.1 mM PMSF, 0.25 mM DTT, 25% glycerol.
<b>Shipping</b>	Dry ice

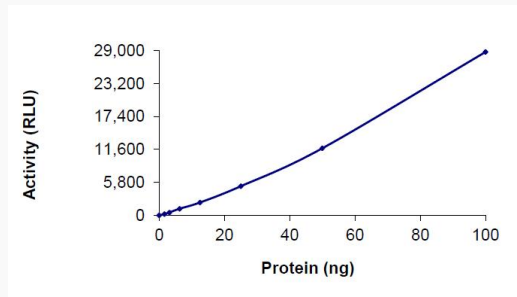
## GENE INFORMATION

<b>Gene Name</b>	ACVR2A activin A receptor type 2A [ Homo sapiens (human) ]
<b>Official Symbol</b>	ACVR2A
<b>Synonyms</b>	ACVR2A; activin A receptor type 2A; ACVR2; ACTRII; activin receptor type-2A; activin A receptor, type IIA; EC 2.7.11.30
<b>Gene ID</b>	92
<b>mRNA Refseq</b>	NM_001616
<b>Protein Refseq</b>	NP_001607
<b>MIM</b>	102581
<b>UniProt ID</b>	P27037

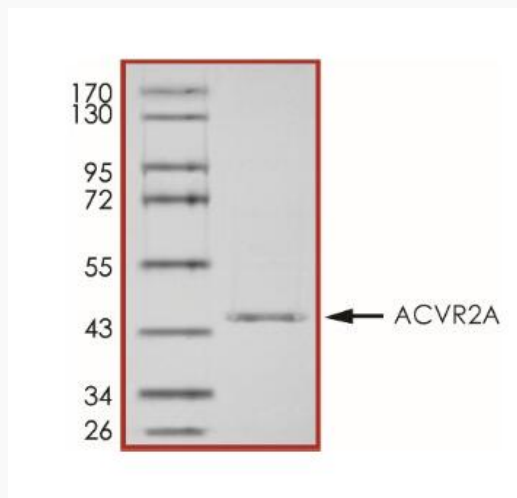
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**Specific Activity**

The specific activity of ACVR2A was determined to be 1.5 nmol/min/mg as per activity assay protocol.

**Purity**

The purity was determined to be >90% by densitometry.