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%

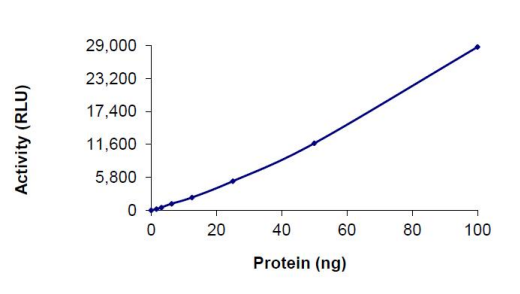
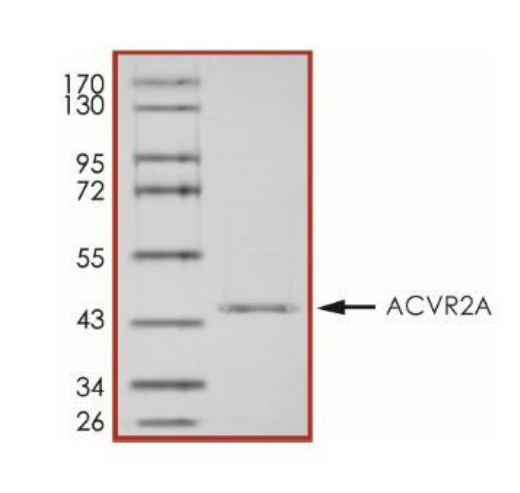
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Stability	One year at -70 centigrade from data of shipment.
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 μg/μL
Storage Buffer	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.
Shipping	Dry ice

GENE INFORMATION

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

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