

Recombinant Human ACVR2A Protein, Fc/His-tagged

Cat. No. ACVR2A-884H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human ACVR2A fused with Fc/His tag at C-terminal was expressed in HEK293 cells.

Species Human

Source HEK293

ProteinLength 20-134aa

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

Form Lyophilized from a 0.2 M filtered solution of 20mM PB, 150mM NaCl, pH 7.4

Molecular Mass 41.2kD

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AA Sequence

AILGRSETQECLFFNANWEKDRTNQTGVEPCYGDKDKRRHCFATWKNISGSIEIVKQ
 GCWLDDINCYDRDCVEKKDSPEVYFCCCEGNMCNEKFSYFPEMEVTQPTSNPVT
 PKPVDDIEGRMDEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVT
 CVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLN
 GKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGF
 YPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFSCSV
 MHEALHNHYTQKSLSLSPGKHHHHHHH

Endotoxin Endotoxin level is <0.1 ng/g of protein (<1EU/g).

Purity >95% as determined by SDS-PAGE and Coomassie blue staining

Concentration Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name [ACVR2A activin A receptor, type IIA \[Homo sapiens \]](#)

Official Symbol [ACVR2A](#)

Synonyms ACVR2A; activin A receptor, type IIA; activin A receptor, type II , ACVR2; activin receptor type-2A; ACTRII; ACVR2;

Gene ID [92](#)

mRNA Refseq [NM_001616](#)

Protein Refseq [NP_001607](#)

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MIM	102581
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UniProt ID	P27037
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