

Recombinant Full Length Human ACVR2A Protein

Cat. No. ACVR2A-07HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human Activin Receptor Type IIA with N terminal proprietary tag; Predicted MWt 82.50 kDa.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	513 amino acids
Description	This gene encodes activin A type II receptor. Activins are dimeric growth and differentiation factors which belong to the transforming growth factor-beta (TGF-beta) superfamily of structurally related signaling proteins. Activins signal through a heteromeric complex of receptor serine kinases which include at least two type I (I and IB) and two type II (II and IIB) receptors. These receptors are all transmembrane proteins, composed of a ligand-binding extracellular domain with cysteine-rich region, a transmembrane domain, and a cytoplasmic domain with predicted serine/threonine specificity. Type I receptors are essential for signaling; and type II receptors are required for binding ligands and for expression of type I receptors. Type I and II receptors form a stable complex after ligand binding, resulting in phosphorylation of type I receptors by type II receptors. Type II receptors are considered to be constitutively active kinases.
Form	Liquid
Molecular Mass	82.500kDa inclusive of tags

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AA Sequence

MGAAAKLAFA VFLISCSSGA ILGRSETQEC LFFNANWEKD RTNQTGVEPC
 YGDKDKRRHC FATWKNISGS IEIVKQGCWL DDINCYDRTD CVEKKDSPEV
 YFCCCEGNMC NEKFSYFPEM EVTQPTSNPV TPKPPYYNIL LYSLVPLMLI
 AGIVICAFWV YRHHKMAYPP VLVPTQDPGP PPPSPLLGLK PLQLLEVkar
 GRFGCVWKAQ LLNEYVAVKI FPIQDKQSWQ NEYEVYSLPG MKHENILQFI
 GAEKRGTSDV VDLWLITAFH EKGSLSDFLK ANVVSWNELC HIAETMARGL
 AYLHEDIPGL KDGHKPAISH RDIKSKNVLL KNNLTACIAD FGLALKFEAG
 KSAGDTHGQV GTRRYMAPEV LEGAINFQRD AFLRIDMYAM GLVLWELASR
 CTAADGPVDE YMLPFEEEEIG QHPSLEDMQE VVVHKKKRPV LRDYWQKHAG
 MAMLCETIEE CWDHDAEARL SAGCVGERIT QMQRLTNIIT TEDIVTVVTM
 VTNVDFPPKE SSL

Purity

Proprietary Purification

Storage

Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer

pH: 8.00. Constituents: 0.3% Glutathione, 0.79% Tris HCl.

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

Gene ID

92

mRNA Refseq

NM_001616

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Protein Refseq	NP_001607
MIM	102581
UniProt ID	P27037

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