

Recombinant Human Activin A Receptor, Type IB, GST-tagged

Cat. No. ACVR1B-5295H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human ACVR1B protein is catalytic domain (aa 150-505) and N-terminal GST-tagged, expressed in insect cells.
Species	Human
Source	Insect Cells
Protein Length	150-505 a.a.
Description	ACVR1B is a serine/threonine kinase involved in signal transduction and cellular communication; several truncated ACVR1B isoforms have been reported to be exclusively expressed in human pituitary tumors and mutations of ACVR1B have been observed in pancreatic adenocarcinomas.
Form	Liquid in 50 mM Tris-HCl (pH 7.5) + 150 mM NaCl + 0.5 mM EDTA + 0.02% Triton X-100 + 2 mM DTT + 50% glycerol.
Molecular Weight	68.2 kDa
Purity	> 85%
Specific Activity	> 250 nmol phosphate transferred to Casein substrate/min/mg.
Storage	Stable for 6 months at -80°C. Avoid repeated freeze-thaw cycles.

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OfficialSymbol ACVR1B

GENE INFORMATION

Gene Name ACVR1B activin A receptor, type IB[Homo sapiens]

Synonyms ACVR1B; activin Areceptor, type IB; ALK4; SKR2; ACTRIB; ACVRLK4; activin receptor type-1B;OTTHUMP00000237285; OTTHUMP00000237286; OTTHUMP00000237287;OTTHUMP00000237289; OTTHUMP00000241624; activin receptor-like kinase 4; activinA receptor, type II-like kinase 4; serine/threonine-protein kinase receptorR2; EC 2.7.11.30

Gene ID 91

mRNA Refseq NM_004302

Protein Refseq NP_004293

MIM 601300

UniProt ID P36896

Chromosome Location 12q13

Pathway Cytokine-cytokinereceptor interaction; Developmental Biology; MAPK signaling pathway;Regulation of Signaling by NODAL; Signaling by NODAL

Function ATP binding; SMADbinding; contributes to activin binding; activin receptor activity, type I;contributes to activin-activated receptor activity; contributes to growthfactor binding; metal ion binding; nucleotide binding; protein binding;protein serine/threonine

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kinase activity; receptor activity; transforming growth factor beta-activated receptor activity; transmembrane receptor protein serine/threonine kinase activity; ubiquitin protein ligase binding

PDB rendering
based on 1rw8.



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