

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

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant human ACVR1B protein is catalytic domain (aa 150-505) and N-terminal GST-tagged, expressed in insect cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Protein Length</b>	150-505 a.a.
<b>Description</b>	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.
<b>Form</b>	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.
<b>Molecular Weight</b>	68.2 kDa
<b>Purity</b>	> 85%
<b>Specific Activity</b>	> 250 nmol phosphate transferred to Casein substrate/min/mg.
<b>Storage</b>	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

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