



## Human ACVR1C peptide (DAG-P0121)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	ACVR1C is a type I receptor for the TGFB (see MIM 190180) family of signaling molecules. Upon ligand binding, type I receptors phosphorylate cytoplasmic SMAD transcription factors, which then translocate to the nucleus and interact directly with DNA or in complex with other transcription factors (Bondestam et al., 2001 [PubMed 12063393]).[supplied by OMIM, Mar 2008]
<b>Specificity</b>	Present in pancreas, heart, colon, small intestine, ovary and the hippocampus, medulla oblongata and putamen of the brain. Isoform 1, isoform 2, isoform 3 and isoform 4 are all expressed in the placenta throughout pregnancy.
<b>Purity</b>	70 - 90% by HPLC.
<b>Conjugate</b>	Unconjugated
<b>Sequence Similarities</b>	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily. Contains 1 GS domain. Contains 1 protein kinase domain.
<b>Format</b>	Liquid
<b>Preservative</b>	None
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

### GENE INFORMATION

<b>Gene Name</b>	<a href="#">ACVR1C activin A receptor, type IC [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	ACVR1C
<b>Synonyms</b>	ACVR1C; activin A receptor, type IC; ALK7; ACVRLK7; activin receptor type-1C; ALK-7; ACTR-

IC; activin receptor type IC; activin receptor-like kinase 7;

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<b>Entrez Gene ID</b>	<a href="#">130399</a>
<b>mRNA Refseq</b>	<a href="#">NM_001111031.1</a>
<b>Protein Refseq</b>	<a href="#">NP_001104501.1</a>
<b>UniProt ID</b>	Q8NER5
<b>Chromosome Location</b>	2q24.1
<b>Pathway</b>	Developmental Biology, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem; Regulation of Signaling by NODAL, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by Activin, organism-specific biosystem; Signaling by NODAL, organism-specific biosystem; TGF-beta signaling pathway, organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem;
<b>Function</b>	ATP binding; activin receptor activity, type I; growth factor binding; metal ion binding; nodal binding; transforming growth factor beta-activated receptor activity;

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