



Human ACVR1C peptide (DAG-P0121)

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

PRODUCT INFORMATION

Antigen Description	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]
Specificity	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.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.Contains 1 GS domain.Contains 1 protein kinase domain.
Format	Liquid
Preservative	None
Storage	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

Gene Name	ACVR1C activin A receptor, type IC [Homo sapiens (human)]
Official Symbol	ACVR1C
Synonyms	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;

Entrez Gene ID	130399
mRNA Refseq	NM_001111031.1
Protein Refseq	NP_001104501.1
UniProt ID	Q8NER5
Chromosome Location	2q24.1
Pathway	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;
Function	ATP binding; activin receptor activity, type I; growth factor binding; metal ion binding; nodal binding; transforming growth factor beta-activated receptor activity;