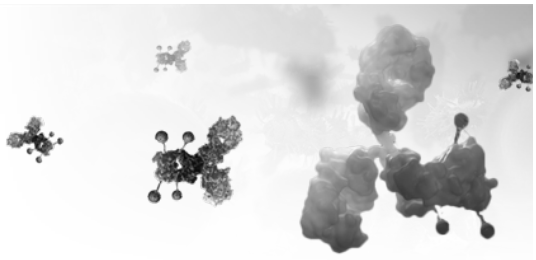

VDR peptide (DAG-P2027)

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

PRODUCT INFORMATION

Antigen Description	This gene encodes the nuclear hormone receptor for vitamin D3. This receptor also functions as a receptor for the secondary bile acid lithocholic acid. The receptor belongs to the family of trans-acting transcriptional regulatory factors and shows sequence similarity to the steroid and thyroid hormone receptors. Downstream targets of this nuclear hormone receptor are principally involved in mineral metabolism though the receptor regulates a variety of other metabolic pathways, such as those involved in the immune response and cancer. Mutations in this gene are associated with type II vitamin D-resistant rickets. A single nucleotide polymorphism in the initiation codon results in an alternate translation start site three codons downstream. Alternative splicing results in multiple transcript variants encoding different proteins. [provided by RefSeq, Feb 2011]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the nuclear hormone receptor family. NR1 subfamily.Contains 1 nuclear receptor DNA-binding 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	VDR vitamin D (1,25- dihydroxyvitamin D3) receptor [Homo sapiens (human)]
Official Symbol	VDR

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Synonyms	VDR; vitamin D (1,25- dihydroxyvitamin D3) receptor; NR1I1; vitamin D3 receptor; 1,25-dihydroxyvitamin D3 receptor; vitamin D nuclear receptor variant 1; nuclear receptor subfamily 1 group I member 1;
Entrez Gene ID	7421
mRNA Refseq	NM_000376.2
Protein Refseq	NP_000367.1
UniProt ID	F1D8P8
Chromosome Location	12q13.11
Pathway	Direct p53 effectors, organism-specific biosystem; Drug Induction of Bile Acid Pathway, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, organism-specific biosystem; Endocrine and other factor-regulated calcium reabsorption, conserved biosystem; Gene Expression, organism-specific biosystem; Generic Transcription Pathway, organism-specific biosystem; Mineral absorption, organism-specific biosystem; Mineral absorption, conserved biosystem; Nuclear Receptor tr
Function	DNA binding; calcitriol binding; calcitriol receptor activity; lithocholic acid binding; lithocholic acid receptor activity; protein binding; retinoid X receptor binding; sequence-specific DNA binding; contributes_to sequence-specific DNA binding transcri

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