Recombinant Human VDR

Cat. No. VDR-31130TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Vitamin D Receptor expressed in a baculovirus system, Predicted MWt 48kDa.
Species	Human
ProteinLength	1-427 aa
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.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 20% Glycerol, 20mM Tris HCl, 100mM Potassium chloride, 1mM DTT, 0.2mM EDTA, pH 8.0
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequence Similarities	Belongs to the nuclear hormone receptor family. NR1 subfamily.Contains 1 nuclear receptor DNA-binding domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	VDR vitamin D (1,25- dihydroxyvitamin D3) receptor [Homo sapiens]
Official Symbol	VDR
Synonyms	VDR; vitamin D (1,25- dihydroxyvitamin D3) receptor; vitamin D3 receptor; NR1I1;
Gene ID	7421
mRNA Refseq	NM_000376
Protein Refseq	NP_000367
MIM	601769
Uniprot ID	P11473
Chromosome Location	12q12-q14
Pathway	Direct p53 effectors, 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;

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Function	DNA binding; metal ion binding; protein binding; receptor activity; retinoid X receptor binding;

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