

Recombinant Human VDR, His-tagged

Cat. No. VDR-2560H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human VDR (Met 1-Ser 427) fused with a polyhistidine tag at the C-terminus, was expressed in Baculovirus-Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	1-427 a.a.
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.
Molecular Mass	The recombinant human VDR consists of 437 amino acids and migrates as an approximately 50 KDa band in SDS-PAGE in SDS-PAGE under reducing conditions as predicted.
Predicted N terminal	Met 1

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Purity	> 88 % as determined by SDS-PAGE
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Formulation	Lyophilized from sterile 50mM Tris,100mM NaCl, pH 8.0, 10%glycerol
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
OfficialSymbol	VDR

GENE INFORMATION

Gene Name	VDR vitamin D (1,25-dihydroxyvitamin D3) receptor [Homo sapiens]
Synonyms	VDR; vitamin D (1,25-dihydroxyvitamin D3) receptor; NR111; 1,25-dihydroxyvitamin D3 receptor; Nuclear receptor subfamily 1 group I member 1; vitamin D nuclear receptor variant 1; vitamin D3 receptor
Gene ID	7421
mRNA Refseq	NM_000376
Protein Refseq	NP_000367
MIM	601769
UniProt ID	P11473
Chromosome Location	12q13.11

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Pathway	Gene Expression; Direct p53 effectors; Drug Induction of Bile Acid Pathway
Function	protein binding; retinoid X receptor binding; sequence-specific DNA binding; steroid hormone receptor activity; transcription factor activity; vitamin D response element binding; vitamin D3 receptor activity; zinc ion binding
PDB rendering based on 1kb2.	