

Recombinant Human VDR Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. VDR-4781H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	VDR MS Standard C13 and N15-labeled recombinant protein (NP_001017535) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes vitamin D3 receptor, which is a member of the nuclear hormone receptor superfamily of ligand-inducible transcription factors. This receptor also functions as a receptor for the secondary bile acid, lithocholic acid. Downstream targets of vitamin D3 receptor are principally involved in mineral metabolism, though this receptor regulates a variety of other metabolic pathways, such as those involved in 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. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. A recent study provided evidence for translational readthrough in this gene, and expression of an additional C-terminally extended isoform via the use of an alternative in-frame translation termination codon.
Molecular Mass	48.1 kDa
AA Sequence	MEAMAASTSLPDPGDFDRNVPRICGVCGDRATGFHFNAMTCEGCKGFFRRSMKRK

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ALFTCPFNGDCRITKDNRRHCQACRLKRCVDIGMMKEFILTDEEVQRKREMILKRKE
 EEALKDSLRLPKLSEEQQRIIALLDAHHKTYDPTYSDFCQFRPPVRVNDGGGSHPSR
 PNSRHTPSFSGDSSSSCSDHCITSSDMMDDSSSFSNLDLSEEDSDDPSVTLELSQLS
 MLPHLADLVSYSIQKVIGFAKMIPGFRDLTSEDQIVLLKSSAIEVIMLRSNESFTMDDM
 SWTCGNQDYKYRVSDVTKAGHSLELIEPLIKFQVGLKKLNLHEEEHVLLMAICIVSPD
 RPGVQDAALIEAIQDRLSNTLQTYIRCRHPPPGSHLLYAKMIQKLADLRSLNEEHKQ
 YRCLSFQPECSMKLTPLVLEVFGNEISTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name VDR vitamin D receptor [Homo sapiens (human)]

Official Symbol VDR

Synonyms VDR; vitamin D (1,25- dihydroxyvitamin D3) receptor; vitamin D3 receptor; NR1I1; 1,25-dihydroxyvitamin D3 receptor; vitamin D nuclear receptor variant 1; nuclear receptor subfamily 1 group I member 1;

Gene ID 7421

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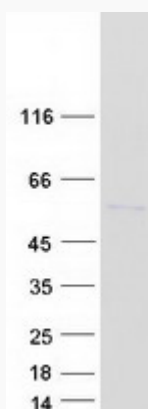
mRNA Refseq [NM_001017535](#)

Protein Refseq [NP_001017535](#)

MIM [601769](#)

UniProt ID [P11473](#)

SDS-PAGE



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