

Active Recombinant Human VDR protein, His-tagged

Cat. No. VDR-562H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human VDR protein(P11473)(272~427 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	272-427 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Vitamin D Receptor (VDR) is the nuclear hormone receptor for vitamin D3. The receptor belongs to the family of trans-acting transcriptional regulatory factors and shows sequence similarity to the steroid and thyroid hormone receptors. It mediates the action of vitamin D3 by controlling the expression of hormone sensitive genes. Besides, Retinoid X Receptor Alpha (RXRa) has been identified as an interactor of VDR, thus a binding ELISA assay was conducted to detect the interaction of recombinant human VDR and recombinant human RXRa. Briefly, VDR were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to RXRa-coated microtiter wells and incubated for 1h at 37°C. Wells were aspirated and incubated for 1h with anti-VDR pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-

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25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450nm immediately. The binding activity of VDR and RXRa was shown, and this effect was in a dose dependent manner. The EC50 for this effect is 0.469 ug/mL.

Molecular Mass	21.6kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

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; 1,25-dihydroxyvitamin D3 receptor; vitamin D nuclear receptor variant 1; nuclear receptor subfamily 1 group I member 1;
Gene ID	7421
mRNA Refseq	NM_000376
Protein Refseq	NP_000367

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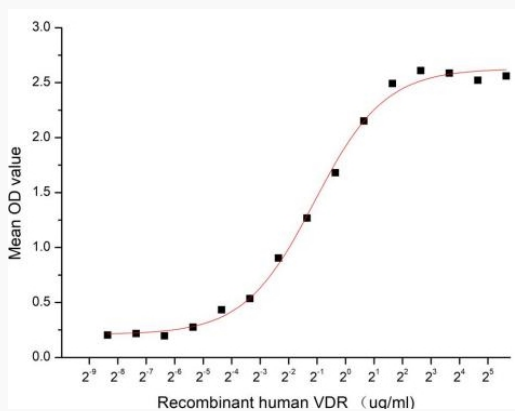
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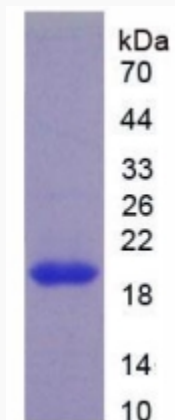
MIM 601769

UniProt ID P11473

Activity



SDS-PAGE



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