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Vitamin D Receptor Protein (VDR) (AA 272-427) (His tag)







Go to Product page

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Quantity:	50 μg
Target:	Vitamin D Receptor (VDR)
Protein Characteristics:	AA 272-427
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This Vitamin D Receptor protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

Product Details

Product Details	
Characteristics:	Tag location: N-terminal His Tag
Purity:	> 90 %
Biological Activity Comment:	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, E1A binding protein p300 (EP300) 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 EP300. Briefly, VDR were
	diluted serially in PBS, with 0.01%BSA (pH 7.4). Duplicate samples of 100uL were then
	transferred to EP300-coated microtiter wells and incubated for 2h at 37°C. Wells were washed
	with PBST 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 3 times.

Product Details

With the addition of substrate solution, wells were incubated 15-25 minutes at 37° C. Finally, add 50μ L stop solution to the wells and read at 450nm immediately. The binding activity of of VDR and EP300 was shown in Figure 1, and this effect was in a dose dependent manner The binding activity of VDR with EP300.

Target Details

Target:	Vitamin D Receptor (VDR)
Abstract:	VDR Products
Target Type:	Chemical
Background:	Alternative Names: NR1I1, Nuclear Receptor Subfamily 1 Group I Member 1, Calcitriol Receptor, 1,25-dihydroxyvitamin D3 receptor
Molecular Weight:	20kDa
UniProt:	P11473
Pathways:	Nuclear Receptor Transcription Pathway, Steroid Hormone Mediated Signaling Pathway

Application Details

Application Notes:	Isoelectric Point: 6.5
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	100 mMNaHCO ₃ , 500 mMNaCl, pH 8.3, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

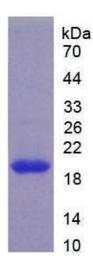


Image 1.