

Datasheet for ABIN7545027

Vitamin D Receptor Protein (VDR) (AA 1-427) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	Vitamin D Receptor (VDR)
Protein Characteristics:	AA 1-427
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Vitamin D Receptor protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat VDR Protein expressed in mammalien cells.
Sequence:	MEAMAASTSL PDPGDFDRNV PRICGVCGDR ATGFHFNAMT CEGCKGFFRR SMKRKALFTC PFNGDCRITK DNRRHCQACR LKRCVDIGMM KEFILTDEEV QRKREMILKR KEEEALKDSL RPKLSEEQQR IIAILLDAH KTYDPTYSD F CQFRPPVRVN DGGGSHPSRP NSRHTPSFSG DSSSSCSDHC ITSSDMMDSS SFSNLDLSEE DSDDPSVTLE LSQLSMLPHL ADLVSYSIQK VIGFAKMIPG FRDLTSEDQI VLLKSSAIEV IMLRSNESFT MDDMSWTCGN QDYKYRVSDV TKAGHSLELI EPLIKFQVGL KKLNLHEEEH VLLMAICIVS PDRPGVQDAA LIEAIQDRLS NTLQTYIRCR HPPPGSHLLY AKMIQKLADL RSLNEEHSKQ YRCLSFQPEC SMKLTPLVLE VFGNEIS Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	Vitamin D Receptor (VDR)
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Alternative Name:	VDR (VDR Products)
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Target Type:	Chemical
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Background:	Vitamin D3 receptor (VDR) (1,25-dihydroxyvitamin D3 receptor) (Nuclear receptor subfamily 1 group I member 1),FUNCTION: Nuclear receptor for calcitriol, the active form of vitamin D3 which mediates the action of this vitamin on cells (PubMed:28698609, PubMed:16913708, PubMed:15728261, PubMed:10678179). Enters the nucleus upon vitamin D3 binding where it forms heterodimers with the retinoid X receptor/RXR (PubMed:28698609). The VDR-RXR heterodimers bind to specific response elements on DNA and activate the transcription of vitamin D3-responsive target genes (PubMed:28698609). Plays a central role in calcium homeostasis (By similarity). Also functions as a receptor for the secondary bile acid lithocholic acid (LCA) and its metabolites (PubMed:12016314, PubMed:32354638). {ECO:0000250 UniProtKB:P13053, ECO:0000269 PubMed:10678179, ECO:0000269 PubMed:12016314, ECO:0000269 PubMed:15728261, ECO:0000269 PubMed:16913708, ECO:0000269 PubMed:28698609, ECO:0000269 PubMed:32354638}.
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Target Details

Molecular Weight:	48.3 kDa
UniProt:	P11473
Pathways:	Nuclear Receptor Transcription Pathway , Steroid Hormone Mediated Signaling Pathway

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months