

PRODUCT INFORMATION

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V2R **Target**

Synonyms ADHR, DI1, DIR, DIR3, NDI, NDI1, V2R

Description Human V2R full length protein-synthetic nanodisc

Delivery 6~8weeks **Uniprot ID** P30518 **Expression Host HEK293**

Protein Families GPCR, Transmembrane, Druggable Genome, GPCRDB Class A Rhodopsin-like, Peptide **Protein Pathways**

The human full length V2R protein has a MW of **Molecular Weight**

GPCRs, Cancer, Metabolic and Obesity,

40.3kDa

Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% Formulation & - 8% trehalose is added as protectants before Reconstitution lyophilization. Please see Certificate of Analysis

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Storage & Shipping Lyophilized proteins are shipped at ambient

temperature.

This gene encodes the vasopressin receptor, type 2, also known as the V2 receptor, which belongs to the seven-transmembrane-domain G proteincoupled receptor (GPCR) superfamily, and couples to Gs thus stimulating adenylate cyclase. The subfamily that includes the V2 receptor, the V1a and V1b vasopressin receptors, the oxytocin receptor, and isotocin and mesotocin receptors in non-mammals, is well conserved, though several members signal via other G proteins. All bind similar cyclic nonapeptide hormones. The V2 receptor is expressed in the kidney tubule, predominantly in the distal convoluted tubule and

collecting ducts, where its primary property is to respond to the pituitary hormone arginine vasopressin (AVP) by stimulating mechanisms that concentrate the urine and maintain water homeostasis in the organism. When the function of this gene is lost, the disease Nephrogenic Diabetes Insipidus (NDI) results. The V2 receptor is also expressed outside the kidney although its tissue localization is uncertain. When these

clotting factors are released into the bloodstream. The physiologic importance of this property is not known - its absence does not appear to be detrimental in NDI patients. The gene expression has also been described in fetal lung tissue and lung cancer associated with alternative splicing.

Email: info@dimabio.com

Website: www.dimabio.com

'extrarenal receptors' are stimulated by infusion of a V2 selective agonist (dDAVP), a variety of

[provided by RefSeq, Jul 2008]

Usage Research use only Conjugate Unconjugated

Address: Wuhan institute of Biotechnology B7, Biolake No.666 Gaoxin Road, Wuhan, Hubei, China Telephone: +1 2409940618(USA) /+86-18062749453(China) /+86-400-006-0995(China)

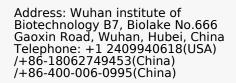
Background



Cat. No. FLP100492







Email: info@dimabio.com Website: www.dimabio.com

