

## **Product datasheet for TP316816**

## OriGene Technologies, Inc.

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## Vasopressin (AVP) (NM\_000490) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human arginine vasopressin (AVP), 20 μg

Species: Human
Expression Host: HEK293T

**Expression cDNA Clone** >RC216816 representing NM\_000490 or AA Sequence: Red=Cloning site Green=Tags(s)

MPDTMLPACFLGLLAFSSACYFQNCPRGGKRAMSDLELRQCLPCGPGGKGRCFGPSICCADELGCFVGTA EALRCQEENYLPSPCQSGQKACGSGGRCAAFGVCCNDESCVTEPECREGFHRRARASDRSNATQLDGPAG

ALLLRLVQLAGAPEPFEPAQPDAY

**TRTRPL**EQKLISEEDLAANDILDYKDDDDK**V** 

Tag: C-Myc/DDK
Predicted MW: 17.3 kDa

**Concentration:** >0.05 μg/μL as determined by microplate BCA method

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

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 000481

Locus ID: 551

**UniProt ID:** <u>P01185</u>

RefSeq Size: 633





Cytogenetics: 20p13

RefSeg ORF: 492

Synonyms: ADH; ARVP; AVP-NPII; AVRP; VP

**Summary:** This gene encodes a member of the vasopressin/oxytocin family and preproprotein that is

proteolytically processed to generate multiple protein products. These products include the neuropeptide hormone arginine vasopressin, and two other peptides, neurophysin 2 and copeptin. Arginine vasopressin is a posterior pituitary hormone that is synthesized in the supraoptic nucleus and paraventricular nucleus of the hypothalamus. Along with its carrier protein, neurophysin 2, it is packaged into neurosecretory vesicles and transported axonally to the nerve endings in the neurohypophysis where it is either stored or secreted into the bloodstream. The precursor is thought to be activated while it is being transported along the axon to the posterior pituitary. Arginine vasopressin acts as a growth factor by enhancing pH regulation through acid-base transport systems. It has a direct antidiuretic action on the kidney, and also causes vasoconstriction of the peripheral vessels. This hormone can contract smooth muscle during parturition and lactation. It is also involved in cognition, tolerance, adaptation and complex sexual and maternal behaviour, as well as in the regulation of water excretion and cardiovascular functions. Mutations in this gene cause autosomal dominant neurohypophyseal diabetes insipidus (ADNDI). This gene is present in a gene cluster with the related gene oxytocin on chromosome 20. [provided by RefSeq, Nov 2015]

**Protein Families:** Druggable Genome, Secreted Protein

## **Product images:**



Coomassie blue staining of purified AVP protein (Cat# TP316816). The protein was produced from HEK293T cells transfected with AVP cDNA clone (Cat# [RC216816]) using MegaTran 2.0 (Cat# [TT210002]).