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# Vasopressin

*Vasopressin*
*HRM0124*

## Product Overview

| | |
|---|---|
| Name | Vasopressin |
| **Description** | |
| Vasopressin | |
| Accession (Primary) | P01185 |
| **Synonyms** | |
| Vasopressin-neurophysin 2-copeptin, AVP-NPII, VP, ADH, ARVP, AVRP, Argipressin, Arginine vasopressin, AVP, Vasopressin, Antidiuretic Hormone. | |
| **Introduction** | |
| Arginine vasopressin (AVP), also known as argipressin or antidiuretic hormone (ADH), is a human hormonethat is released when the body is low on water; it causes the kidneysto conserve water, but not salt, by concentrating the urineand reducing urine volume. It also raises blood pressure by inducing moderate vasoconstriction. It has various effects in the brain. A very similar substance, lysine vasopressin (LVP) or lypressin, has the same function in pigsand is often used in human therapy. Vasopressin is a peptide hormone. It is derived from a preprohormoneprecursor that is synthesized in the hypothalamus, from which it is liberated during transport to the posterior pituitary. Most of it is stored in the posterior partof the pituitary glandto be released into the blood stream; some of it is also released directly into the brain. AVP allows water reabsorption by the introduction of additional water channels in cortical and inner medullary collecting ducts. | |
| **Physical Appearance** | |
| Sterile Filtered White lyophilized (freeze-dried) powder. | |
| **Formulation** | |
| The protein (1 mg/ml) was lyophilized with no additives. | |
| **Stability** | |
| Lyophilized Vasopressin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Vasopressin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. | |
| **Purity** | |
| Greater than 98.0% as determined by by RP-HPLC. | |
| **Amino acid sequence** | |

C[Cys-Tyr-Phe-Gln-Asn-Cys]-Pro-Arg-Gly-NH 2 .

**Solubility**

It is recommended to reconstitute the lyophilized Vasopressin in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Precautions**

Vasopressin is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( P01185 )