

AVP

Synthetic Vasopressin

Catalog No.	CRV105A	Quantity:	5 mg
	CRV105B		25 mg
	CRV105C		100 mg

Alternate Names: Vasopressin-neurophysin 2-copeptin, AVP-NP11, VP, ADH, ARVP, AVRP, Argipressin, Arginine vasopressin, AVP, Vasopressin, Antidiuretic Hormone.

Description: Arginine vasopressin (AVP) is a human hormone that is released when the body is low on water. It causes the kidneys to conserve water, but not salt, by concentrating the urine and 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 pigs and is often used in human therapy. Vasopressin is a peptide hormone. It is derived from a preprohormone precursor 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 part of the pituitary gland to 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. Vasopressin has a molecular formula of $C_{46}H_{65}N_{15}O_{12}S_2$.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Gene ID: 551

Molecular Weight: 1084.23 Dalton

Formulation: The protein (1 mg/ml) was lyophilized with no additives.

Purity: > 98.0% as determined by RP-HPLC and SDS-PAGE.

Amino Acid Sequence: Cys-Tyr-Phe-Gln-Asn-Cys-Pro-Arg-Gly-NH₂.

Reconstitution: It is recommended to reconstitute the lyophilized Vasopressin in sterile distilled water at not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Storage & Stability: Lyophilized Vasopressin should be stored desiccated below -20°C. Upon reconstitution, Vasopressin may be stored at 2-4°C between 2-7 days. For future use, store below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Avoid repeated freeze-thaw cycles.

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