
Product Data Sheet

Product Name: Vasopressin

Cat. No.: GP21320

Batch No.: 1

Product Data

Purity >98%

Source

Physical
Appearance

solid

Shipping
Condition

Shipped at Room temp.

Synonyms

Vasopressin-neurophysin 2-copeptin; AVP-NPII; VP; ADH; ARVP; AVRP; Argipressin; Arginine vasopressin; AVP; Vasopressin; Antidiuretic Hormone.

Amino Acid
SequenceC[Cys-Tyr-Phe-Gln-Asn-Cys]-Pro-Arg-Gly-NH₂.

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.

Formulation

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

Introduction

Arginine vasopressin (AVP), also known as argipressin or antidiuretic hormone (ADH), is a human hormone that is released when the body is low on water; it causes the kidney 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 lyspressin, has the same function in pigs and is often used in human therapy. Vasopressin is a peptide hormone. It is derived from a prohormone 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.

Stability

Lyophilized Vasopressin although stable at room temperature for 3 weeks, should be

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

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.

Background

ProSpec's 8-L-Arginine Vasopressin's molecular weight is 1084.24 Dalton and the molecular formula is: $\text{C}_{46}\text{H}_{65}\text{N}_{15}\text{O}_{12}\text{S}_2$.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA