

Vasopressin

Chemical Properties

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|-------------------|--|
| CAS No.: | 11000-17-2 |
| Formula: | C ₄₆ H ₆₅ N ₁₅ O ₁₂ S ₂ |
| Molecular Weight: | 1084.24 |
| Appearance: | N/A |
| Storage: | 0-4°C for short term (days to weeks), or -20°C for long term (months). |

Biological Description

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|-------------|---|
| Description | Vasopressin is a hormone synthesized as a peptide prohormone in neurons in the hypothalamus and is converted to AVP. AVP increases the amount of solute-free water reabsorbed back into the circulation from the filtrate in the kidney tubules of the nephrons. AVP also constricts arterioles, which increases peripheral vascular resistance and raises arterial blood pressure. |
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Solubility Information

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| Solubility | Water: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble) |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|----------|----------|
| 1 mM | 0.922 mL | 4.612 mL | 9.223 mL |
| 5 mM | 0.184 mL | 0.922 mL | 1.845 mL |
| 10 mM | 0.092 mL | 0.461 mL | 0.922 mL |
| 50 mM | 0.018 mL | 0.092 mL | 0.184 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Gizowski C, Trudel E, Bourque CW. Central and peripheral roles of vasopressin in the circadian defense of body hydration. *Best Pract Res Clin Endocrinol Metab.* 2017 Dec;31(6):535-546. doi: 10.1016/j.beem.2017.11.001. Epub 2017 Nov 13. Review. PubMed PMID: 29224666.
2. Terranova JI, Ferris CF, Albers HE. Sex Differences in the Regulation of Offensive Aggression and Dominance by Arginine-Vasopressin. *Front Endocrinol (Lausanne).* 2017 Nov 14;8:308. doi: 10.3389/fendo.2017.00308. eCollection 2017. Review. PubMed PMID: 29184535; PubMed Central PMCID: PMC5694440.
3. Ishikawa SE. Is Exaggerated Release of Arginine Vasopressin an Endocrine Disorder? Pathophysiology and Treatment. *J Clin Med.* 2017 Oct 31;6(11). pii: E102. doi: 10.3390/jcm6110102. Review. PubMed PMID: 29088071; PubMed Central PMCID: PMC5704119.
4. Caldwell HK, Aulino EA, Rodriguez KM, Witchev SK, Yaw AM. Social Context, Stress, Neuropsychiatric Disorders, and the Vasopressin 1b Receptor. *Front Neurosci.* 2017 Oct 16;11:567. doi: 10.3389/fnins.2017.00567. eCollection 2017. Review. PubMed PMID: 29085277; PubMed Central PMCID: PMC5650633.

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