



# SZABO SCANDIC

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## Produktinformation



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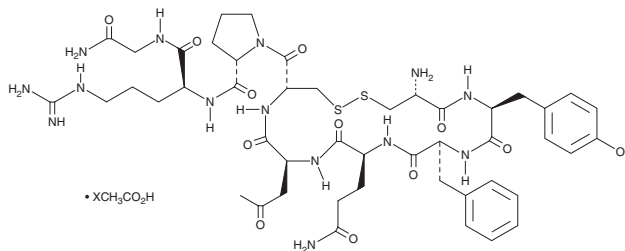
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# PRODUCT INFORMATION

## Argipressin (acetate)

Item No. 24154

**CAS Registry No.:** 129979-57-3  
**Formal Name:** 8-L-arginine-vasopressin, acetate  
**Synonyms:** AVP, [Arg<sup>8</sup>]-Vasopressin  
**MF:** C<sub>46</sub>H<sub>65</sub>N<sub>15</sub>O<sub>12</sub>S<sub>2</sub> • XC<sub>2</sub>H<sub>4</sub>O<sub>2</sub>  
**FW:** 1,084.2  
**Purity:** ≥95%  
**Supplied as:** A lyophilized powder  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Argipressin (acetate) is supplied as a lyophilized powder. A stock solution may be made by dissolving the argipressin (acetate) in water. The solubility of argipressin (acetate) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

Argipressin is a peptide hormone with vasoconstrictive and antidiuretic activities that binds to the vascular arginine vasopressin receptor, V<sub>1</sub>, with K<sub>d</sub> values of 1.31 and 1.44 nM in A<sub>7r5</sub> rat aortic smooth muscle cells and neonatal rat cardiomyocytes, respectively.<sup>1,2</sup> It also stimulates the intracellular release of calcium in A<sub>7r5</sub> cells (EC<sub>50</sub> = 5 nM).<sup>3</sup> In rat models, argipressin induces hypertension and tachycardia when injected into the lateral septal nuclei at a dose of 100-400 ng and increases heart rate and mean arterial pressure (MAP) when injected into the medial amygdaloid body at a dose of 150-600 ng.<sup>4,5</sup>

### References

1. Thibonnier, M., Bayer, A.L., Simonson, M.S., *et al.* Multiple signaling pathways of V<sub>1</sub>-vascular vasopressin receptors of A<sub>7r5</sub> cells. *Endocrinology* **129(6)**, 2845-2856 (1991).
2. Xu, Y.J. and Gopalakrishnan, V. Vasopressin increases cytosolic free [Ca<sup>2+</sup>] in the neonatal rat cardiomyocyte. Evidence for V<sub>1</sub> subtype receptors. *Circ. Res.* **69(1)**, 239-245 (1991).
3. Byron, K.L. Vasopressin stimulates Ca<sup>2+</sup> spiking activity in A<sub>7r5</sub> vascular smooth muscle cells via activation of phospholipase A<sub>2</sub>. *Circ. Res.* **78(5)**, 813-820 (1996).
4. Gao, L., Jiang, N.-C., Luo, Q.-H., *et al.* Cardiovascular effects of injection of argipressin into lateral septal nuclei in rats. *Zhongguo Yao Li Xue Bao.* **17(1)**, 49-52 (1996).
5. Jiang, N.-C., Gao, L., Chen, C., *et al.* Effects of argipressin injected into medial amygdaloid body on blood pressure and heart rate in rats. *Zhongguo Yao Li Xue Bao.* **14(2)**, 118-120 (1993).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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