



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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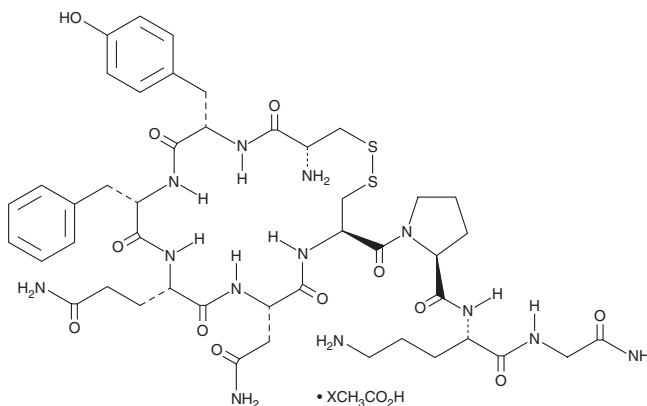
# PRODUCT INFORMATION



## Ornipressin (acetate)

Item No. 36716

**CAS Registry No.:** 914453-98-8  
**Formal Name:** 8-L-ornithine-vasopressin, acetate  
**Synonyms:** Cys-Tyr-Phe-Gln-Asn-Cys-Pro-Orn-Gly-NH<sub>2</sub>,  
8-Ornithine Vasopressin,  
Orn<sup>8</sup>-Vasopressin, POR-8  
**Peptide Sequence:** CYFQNC PXG-NH<sub>2</sub> where X = ornithine  
**MF:** C<sub>45</sub>H<sub>63</sub>N<sub>13</sub>O<sub>12</sub>S<sub>2</sub> • XC<sub>2</sub>H<sub>4</sub>O<sub>2</sub>  
**FW:** 1,042.2  
**Purity:** ≥98%  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥4 years



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

### Laboratory Procedures

Ornipressin (acetate) is supplied as a crystalline solid. A stock solution may be made by dissolving the ornipressin (acetate) in the solvent of choice, which should be purged with an inert gas. Ornipressin (acetate) is soluble in the organic solvent DMSO at a concentration of approximately 10 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of ornipressin (acetate) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of ornipressin (acetate) in PBS (pH 7.2) is approximately 20 mg/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

Ornipressin is an agonist of the vasopressin V<sub>1A</sub> receptor and a synthetic peptide derivative of argipressin (Item No. 24154) containing an arginine-to-ornithine substitution at position eight.<sup>1</sup> It selectively induces reporter gene expression in HEK293 cells expressing vasopressin V<sub>1A</sub> and V<sub>2</sub> receptors (EC<sub>50</sub>s = 0.69 and 0.45 nM, respectively, for the human receptors) over cells expressing vasopressin V<sub>1B</sub> receptors.<sup>2</sup> It is selective for vasopressin V<sub>1A</sub> and V<sub>2</sub> receptors over the vasopressin V<sub>1B</sub> receptor and oxytocin receptor (EC<sub>50</sub>s = 7.5 and 71 nM, respectively, for the human receptors). Ornipressin increases arterial blood pressure in rats when administered at a dose of 0.1 nmol/kg.

### References

1. Kam, P.C.A. and Tay, T.M. The pharmacology of ornipressin (POR-8): A local vasoconstrictor used in surgery. *Eur. J. Anaesthesiol.* **15**(2), 133-139 (1998).
2. Wisniewski, K., Galyean, R., Tariga, H., et al. New, potent, selective, and short-acting peptidic V<sub>1a</sub> receptor agonists. *J. Med. Chem.* **54**(13), 4388-4398 (2011).

#### 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.

#### WARRANTY AND LIMITATION OF REMEDY

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