

**Product Name:** Veratridine

**Catalog No.:** 2918

**Batch No.:** 19

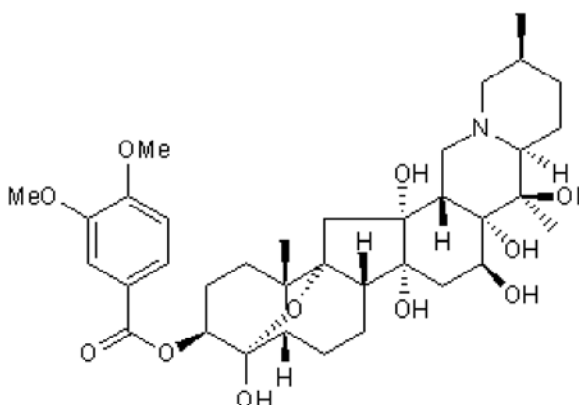
CAS Number: 71-62-5

EC Number: 200-758-4

IUPAC Name: 4 $\alpha$ ,9-Epoxy-3 $\beta$ -veratroyloxy-5 $\beta$ -cevan-4 $\beta$ ,12,14,16 $\beta$ ,17,20-hexaol

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>36</sub>H<sub>51</sub>NO<sub>11</sub>  
**Batch Molecular Weight:** 673.79  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 50 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.0% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	64.17	7.63	2.08
Found	63.16	7.78	2.03

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**Description:**

Veratridine is a voltage-gated Na<sup>+</sup> channel opener; increases intracellular Ca<sup>2+</sup> with no effect on the Na<sup>+</sup>/Ca<sup>2+</sup> exchanger. Steroid-derived alkaloid neurotoxin. Increases membrane Na<sup>+</sup> permeability and depolarizes excitable tissues.

**Physical and Chemical Properties:**

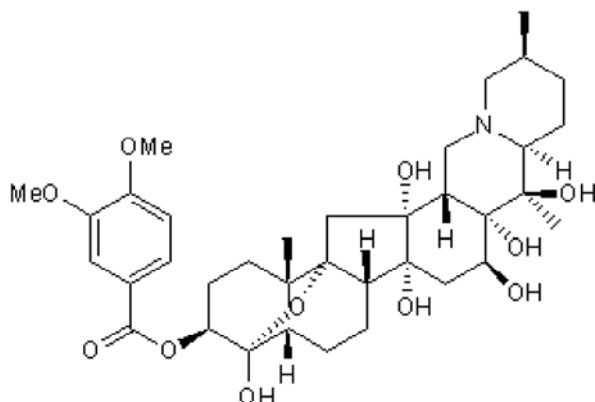
Batch Molecular Formula: C<sub>36</sub>H<sub>51</sub>NO<sub>11</sub>

Batch Molecular Weight: 673.79

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 50 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Fekete et al** (2009) Mechanism of the persistent sodium current activator veratridine-evoked Ca<sup>2+</sup> elevation: implication for epilepsy. *J.Neurochem.* **111** 745. PMID: 19719824.

**Maroto et al** (1994) Effects of Ca<sup>2+</sup> channel antagonists on chromaffin cell death and cytosolic Ca<sup>2+</sup> oscillations induced by veratridine. *Eur.J.Pharmacol.* **270** 331. PMID: 7805782.

**McKinney et al** (1986) Purification, solubility and pK<sub>a</sub> of veratridine. *Anal.Biochem.* **153** 33. PMID: 3963380.

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