

Product Name: Veratridine

Catalog No.: 2918

Batch No.: 16

CAS Number: 71-62-5

EC Number: 200-758-4

IUPAC Name: 4 α ,9-Epoxy-3 β -veratroyloxy-5 β -cevan-4 β ,12,14,16 β ,17,20-hexaol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₆H₅₁NO₁₁·¼H₂O

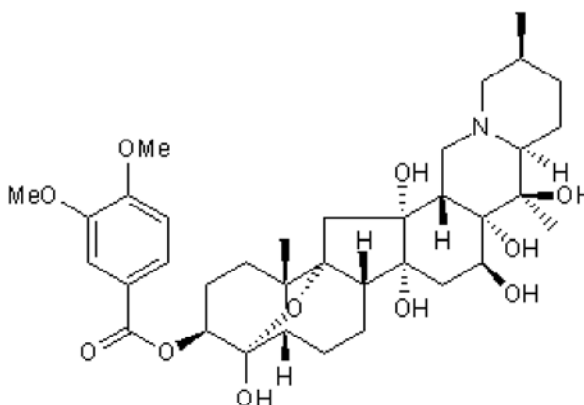
Batch Molecular Weight: 678.29

Physical Appearance: White solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.75	7.65	2.07
Found	63.57	7.4	2.11

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956

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Description:

Voltage-gated Na⁺ channel opener; increases intracellular Ca²⁺ with no effect on the Na⁺/Ca²⁺ exchanger. Steroid-derived alkaloid neurotoxin. Increases membrane Na⁺ permeability and depolarizes excitable tissues.

Physical and Chemical Properties:

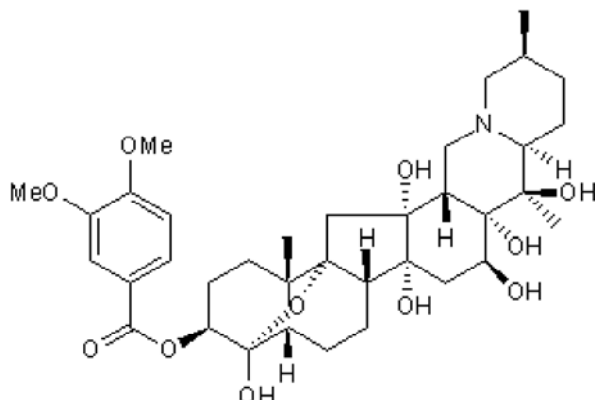
Batch Molecular Formula: C₃₆H₅₁NO₁₁· $\frac{1}{4}$ H₂O

Batch Molecular Weight: 678.29

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 Ca²⁺ elevation: implication for epilepsy. *J.Neurochem.* **111** 745. PMID: 19719824.

Maroto et al (1994) Effects of Ca²⁺ channel antagonists on chromaffin cell death and cytosolic Ca²⁺ oscillations induced by veratridine. *Eur.J.Pharmacol.* **270** 331. PMID: 7805782.

McKinney et al (1986) Purification, solubility and pK_a of veratridine. *Anal.Biochem.* **153** 33. PMID: 3963380.

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