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DATASHEET

Veratridine

Product overview

Name	Veratridine
Cat No	HB1006
Biological action	Activator
Purity	>98%
Description	Na ⁺ channel activator

Images



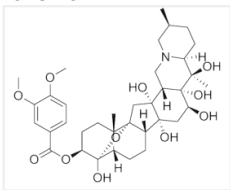
Biological Data

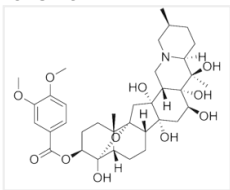
Biological description	Na ⁺ channel activator. Binds to active channels and prevents the inactive state. Increases persistent sodium current and intracellular Ca ²⁺ . Increases reverse Na ⁺ / Ca ²⁺ exchange current, pump activity and exocytosis. Induces action potentials and extended membrane depolarization.
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Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in DMSO (50mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	4α,9-Epoxy-3β-veratroxyloxy-5β-cevan-4β, 12,14,16β,17,20-hexaol
Molecular Weight	673.79
Chemical structure	



Molecular Formula	C ₃₆ H ₅₁ NO ₁₁
CAS Number	71-62-5

Chemical name	4α,9-Epoxy-3β-veratroyloxy-5β-cevan-4β, 12,14,16β,17,20-hexaol
PubChem identifier	6280
SMILES	<chem>O=C(C8=CC=C(OC)C(OC)=C8)O[C@H]1CC[C@@]2(C)[C@@]3([H])[C@@](O)1O[C@@]42[C@@]([C@@](C[C@H](O)[C@@]6(O)[C@]([H])5CN7[C@](CC[C@H](C)C7)([H])[C@@](O)6C)(O)[C@@]5(O)C4)([H])CC3</chem>
InChiKey	FVECELJHCSPHKY-YFUMOZOISA-N

References

Effects of veratridine on sodium currents and fluxes.

Ulbricht W (1998) Rev Physiol Biochem Pharmacol 133

PubMedID [9600010](#)

Mechanism of the persistent sodium current activator veratridine-evoked Ca elevation: implication for epilepsy.

Fekete A *et al* (2009) J Neurochem 111(3)

PubMedID [19719824](#)

Effects of Ca²⁺ channel antagonists on chromaffin cell death and cytosolic Ca²⁺ oscillations induced by veratridine.

Maroto R *et al* (1994) Eur J Pharmacol 270(4)

PubMedID [7805782](#)

[Involvement of veratridine-induced increase of reverse Na⁽⁺⁾/Ca⁽²⁺⁾ exchange current in intracellular Ca⁽²⁺⁾ overload and extension of action potential duration in rabbit ventricular myocytes].

Kong LH *et al* (2012) Sheng Li Xue Bao 64(4)

PubMedID [22907304](#)
