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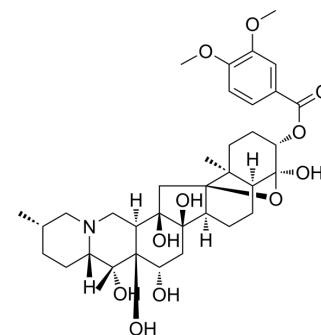
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Veratridine

Cat. No.:	HY-N6691		
CAS No.:	71-62-5		
Molecular Formula:	C ₃₆ H ₅₁ NO ₁₁		
Molecular Weight:	673.79		
Target:	Sodium Channel		
Pathway:	Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	1 year
		-20°C	6 months



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (148.41 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.4841 mL	7.4207 mL	14.8414 mL
		5 mM	0.2968 mL	1.4841 mL	2.9683 mL
		10 mM	0.1484 mL	0.7421 mL	1.4841 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (3.71 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (3.71 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (3.71 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Veratridine (3-Veratroylveracevine) is a plant neurotoxin, a voltage-gated sodium channels (VGSCs) agonist. Veratridine inhibits the peak current of Nav1.7, with an IC ₅₀ of 18.39 μM. Veratridine regulates sodium ion channels mainly by activating sodium ion channels, preventing channel inactivation and increasing sodium ion flow ^{[1][2]} .
IC₅₀ & Target	Na _v 1.7 18.39 μM (IC ₅₀)
In Vitro	Veratridine (0.25 mM and 1 mM; 24 h) treatment results in all cells death ^[2] .

?Veratridine (0.001-100 μM) produces tetrodotoxin-sensitive responses^[3].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity Assay^[2]

Cell Line:	Neuro-2a cells
Concentration:	0.25 mM and 1 mM
Incubation Time:	24 hours
Result:	Caused around 100% cell mortality (0% cell viability).

Cell Viability Assay^[3]

Cell Line:	Cultured mouse DRG neurons
Concentration:	0.001, 0.1, 1, 10, 30, and 100 μM
Incubation Time:	
Result:	Increased responding neurons number from a threshold of 1 μM in a concentration-dependent manner.

CUSTOMER VALIDATION

- Proteome Sci. 2023 Oct 12;21(1):17.

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REFERENCES

[1]. Laura A Uribe, et al. Supramolecular Complexes of Plant Neurotoxin Veratridine with Cyclodextrins and Their Antidote-like Effect on Neuro-2a Cell Viability. *Pharmaceutics*. 2022 Mar 9;14(3):598.

[2]. Zainab A Mohammed, et al. Veratridine produces distinct calcium response profiles in mouse Dorsal Root Ganglia neurons. *Sci Rep*. 2017 Mar 24;7:45221.

[3]. Zhang XY, et al. Veratridine modifies the gating of human voltage-gated sodium channel Nav1.7. *Acta Pharmacol Sin*. 2018 Nov;39(11):1716-1724.

Caution: Product has not been fully validated for medical applications. For research use only.

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