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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	4a,9-Epoxy-3β-veratroyloxy-5β-cevan-4β, 12,14,16β,17,20-hexaox
Molecular Weight	673.79
Chemical structure	A complex organic molecule with a triterpenoid core. It features a trisubstituted cyclopentenone ring system with multiple hydroxyl groups (OH) at various positions. A veratroyl group (-C6H5-C(=O)-O-C6H3(O)2-) is attached to one of the rings. There are also several double bonds and epoxide groups throughout the structure.
Molecular Formula	C ₃₆ H ₅₁ NO ₁₁

CAS Number	71-62-5
PubChem identifier	6280
SMILES	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
InChIKey	FVECELJHCSPHKY-YFUMOZOISA-N

References

Effects of veratridine on sodium currents and fluxes.

Ulbricht W (1998) Rev Physiol Biochem Pharmacol 133

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[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].

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PubMedID [22907304](#)
