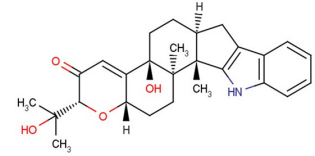


Data Sheet (Cat.No.T12373)

Paxilline

Chemical Properties

CAS No.:	57186-25-1
Formula:	C ₂₇ H ₃₃ NO ₄
Molecular Weight:	435.56
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Paxilline is an indole alkaloid mycotoxin from <i>Penicillium paxilli</i> , acts as a potent BK channels inhibitor by an almost exclusively closed-channel block mechanism. Paxilline possesses significant anticonvulsant activity.
Targets(IC ₅₀)	SERCA: 5-50 μM

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.296 mL	11.479 mL	22.959 mL
5 mM	0.459 mL	2.296 mL	4.592 mL
10 mM	0.23 mL	1.148 mL	2.296 mL
50 mM	0.046 mL	0.23 mL	0.459 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Zhou Y, et al. Paxilline inhibits BK channels by an almost exclusively closed-channel block mechanism. *J Gen Physiol.* 2014 Nov;144(5):415-40.
- Bilmen JG, et al. The mechanism of inhibition of the sarco/endoplasmic reticulum Ca²⁺ ATPase by paxilline. *Arch Biochem Biophys.* 2002 Oct 1;406(1):55-64.
- Sheehan JJ, et al. Anticonvulsant effects of the BK-channel antagonist paxilline. *Epilepsia.* 2009 Apr;50(4):711-20.

Inhibitors · Natural Compounds · Compound Libraries

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