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Zuschläge

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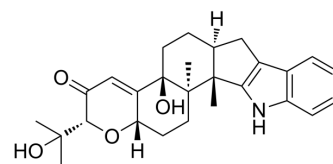
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Paxilline

Cat. No.:	HY-N6778
CAS No.:	57186-25-1
Molecular Formula:	C ₂₇ H ₃₃ NO ₄
Molecular Weight:	435.56
Target:	Calcium Channel; Potassium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (229.59 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	2.2959 mL	11.4795 mL	22.9590 mL
		5 mM	0.4592 mL	2.2959 mL	4.5918 mL
		10 mM	0.2296 mL	1.1479 mL	2.2959 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: ≥ 6.25 mg/mL (14.35 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.74 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil				
	Solubility: ≥ 2.5 mg/mL (5.74 mM); Clear solution				

BIOLOGICAL ACTIVITY

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 also inhibits the sarco/endoplasmic reticulum Ca ²⁺ ATPase (SERCA) with IC ₅₀ s between 5 μM and 50 μM for differing isoforms. Paxilline possesses significant anticonvulsant activity ^{[1][2][3]} .
IC ₅₀ & Target	IC ₅₀ : 5-50 μM (SERCA) ^[2] , BK channel ^[1]

CUSTOMER VALIDATION

- Nat Commun. 2023 Dec 12;14(1):8255.
- Biomed Pharmacother. 2022 Jan 17;147:112641.
- J Cell Physiol. 2021 Aug;236(8):5818-5831.
- Cell Calcium. 2022 Jun;104:102571.
- Mol Cells. 2021 Aug 31;44(8):557-568.

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REFERENCES

- [1]. 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.
- [2]. 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.
- [3]. Sheehan JJ, et al. Anticonvulsant effects of the BK-channel antagonist paxilline. Epilepsia. 2009 Apr;50(4):711-20.
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Caution: Product has not been fully validated for medical applications. For research use only.

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