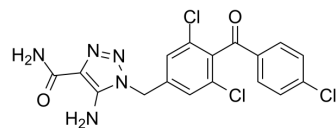


Carboxyamidotriazole

Cat. No.:	HY-16126	
CAS No.:	99519-84-3	
Molecular Formula:	C ₁₇ H ₁₂ Cl ₃ N ₅ O ₂	
Molecular Weight:	424.67	
Target:	Calcium Channel	
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling	
Storage:	Powder	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (235.48 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.3548 mL	11.7738 mL	23.5477 mL
		5 mM	0.4710 mL	2.3548 mL	4.7095 mL
10 mM		0.2355 mL	1.1774 mL	2.3548 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.89 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.89 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.89 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Carboxyamidotriazole (L-651582) is a cytostatic inhibitor of nonvoltage-operated calcium channels and calcium channel-mediated signaling pathways. Carboxyamidotriazole shows anti-tumor, anti-inflammatory and antiangiogenic effects ^{[1][2]} .
IC₅₀ & Target	Calcium channel ^[1]

REFERENCES

[1]. Chen C, et al. Carboxyamidotriazole Synergizes with Bay 43-9006 to Combat Non-Small Cell Lung Cancer through Inhibition of NANOG and Aggravation of Apoptosis. J Pharmacol Exp Ther. 2017 Aug;362(2):219-229.

[2]. Hussain MM, et al. J Clin Oncol. 2003 Dec 1;21(23):4356-63.

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

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