Amoscanate

®

MedChemExpress

Cat. No.:	HY-129051	
CAS No.:	26328-53-0	
Molecular Formula:	$C_{13}H_{9}N_{3}O_{2}S$	Q-
Molecular Weight:	271	
Target:	Parasite; Oxidative Phosphorylation	S N
Pathway:	Anti-infection; Others	Н
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months: -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
F		1 mM	3.6900 mL	18.4502 mL	36.9004 mL
		5 mM	0.7380 mL	3.6900 mL	7.3801 mL
		10 mM	0.3690 mL	1.8450 mL	3.6900 mL

DIOLOGICALACTIV					
Description	Amoscanate (cgp4540) is phenyl isothiocyanate in which the hydrogen at the para-position has been replaced by a 4- nitroanilinyl group. Amoscanate is an anti-schistosomal agent. Amoscanate, as an isothiocyanate compound and uncoupler of oxidative phosphorylation, potently injures rodent ependyma ^[1] .				
IC ₅₀ & Target	Schistosome				
In Vivo	Amoscanate (500 mg/kg; p.o.; 10 days) destructs ependyma and periventricular brain ^[1] . Amoscanate (250 and 500 mg/kg; p.o.; 28 days) elicits necrosis, Ca ⁺⁺ -positive microgranules, pyknosis and edema localized in ependyma/subependyma in the medial striatum ^[1] . Amoscanate (25~500 mg/kg; p.o.; 20 days) elicits progressive necrosis of ependyma ^[1] . Amoscanate elicits massive ultrastructural damage in ependymal cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				
	Animal Model:	Sprague-Dawley rats ^[1]			
	Dosage:	500 mg/kg			

Product Data Sheet

Administration:	P.o.; 10 days	
Result:	Destructed ependyma and periventricular brain.	
Animal Model:	Sprague-Dawley rats ^[1]	
Dosage:	250 and 500 mg/kg	
Administration:	P.o.; 28 days	
Result:	Elicited necrosis, Ca ⁺⁺ -positive microgranules, pyknosis and edema localized in ependyma/subependyma in the medial striatum.	
Animal Model:	Sprague-Dawley rats ^[1]	
Dosage:	25~500 mg/kg	
Administration:	P.o.; 20 days	
Result.	Elicited progressive necrosis of enerdymal	

REFERENCES

[1]. Johanson C, et al. The distributional nexus of choroid plexus to cerebrospinal fluid, ependyma and brain: toxicologic/pathologic phenomena, periventricular destabilization, and lesion spread. Toxicol Pathol. 2011;39(1):186-212.

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

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