## Anti-infective agent 5

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Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-1514852738381-47-8 $C_{18}H_{13}N_5O_3$ 347.33ParasiteAnti-infectionPlease store the product under the recommended conditions in the Certificate of Analysis.	
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BIOLOGICAL ACTIVITY				
Description	Anti-infective agent 5 (compound 74) is an orally active inhibitor of <i>Trypanosoma cruzi</i> with an IC <sub>50</sub> value of 0.10 μM. Anti- infective agent 5 effectively reduces parasite burden in vivo. Anti-infective agent 5 can be used for the research of infection <sup>[1]</sup> .			
IC <sub>50</sub> & Target	Trypanosoma			
In Vitro	Anti-infective agent 5 (0.1 nM-100 μM; 48 h) shows antitrypanosomal activity against T. cruzi amastigotes in 3T3 cells with an IC <sub>50</sub> value of 0.10 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cytotoxicity Assay <sup>[1]</sup>			
	Cell Line:	3T3 cell line		
	Concentration:	0.1 nM-100 μM		
	Incubation Time:	48 hours		
	Result:	Showed activity against 3T3 cells with an $\text{CC}_{50}$ value of $\boxtimes$ 37 $\mu\text{M}.$		
In Vivo	Anti-infective agent 5 (50 mg/kg; p.o. twice daily for five days) reduces the parasite burden in bioluminescent T. cruzi mouse model <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Animal Model:	BALB/c mice with bioluminescent T. cruzi CL Brener parasites infection $^{[1]}$		
	Dosage:	50 mg/kg		
	Administration:	Oral gavage; 50 mg/kg twice daily for five days		
	Result:	Showed a reduction in parasite burden of >98-99% with no significant adverse effects observed in mice.		

## REFERENCES

[1]. Ang CW, et al. Nitroimidazopyrazinones with Oral Activity against Tuberculosis and Chagas Disease in Mouse Models of Infection. J Med Chem. 2022 Sep 16.

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

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