# **Anti-infective agent 4**

Cat. No.: HY-151484

CAS No.: 2738381-52-5 Molecular Formula:  $C_{19}H_{12}F_3N_5O_4$ 

Molecular Weight: 431.32 Target: Parasite Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of

**Product** Data Sheet

# **BIOLOGICAL ACTIVITY**

Description	Anti-infective agent 4 (compound 73) is an orally active inhibitor of <i>Trypanosoma cruzi</i> with an IC <sub>50</sub> value of 0.016 μM. Anti-
	infective agent 4 effectively reduces parasite burden in vivo. Anti-infective agent 4 can be used for the research of infection [1]

### Trypanosoma

In Vitro

IC<sub>50</sub> & Target

Anti-infective agent 4 (0.1 nM-100 μM; 48 h) shows antitrypanosomal activity against T. cruzi amastigotes in 3T3 cells with an  $IC_{50}$  value of 0.016  $\mu M^{[1]}$ .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity  $Assay^{[1]}$ 

Cell Line:	3T3 cells
Concentration:	0.1 nM-100 μM
Incubation Time:	48 hours
Result:	Showed activity against 3T3 cells with an $CC_{50}$ value of $\hbox{\tt M37}\ \mu\hbox{\tt M}.$

## In Vivo

Anti-infective agent 4 (50 mg/kg; p.o. once daily for five days) reduces the parasite burden in bioluminescent T. cruzi mouse  $model^{[1]}$ .

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Animal Model:	BALB/c mice with bioluminescent T. cruzi CL Brener parasites infection <sup>[1]</sup>
Dosage:	50 mg/kg
Administration:	Oral gavage; 50 mg/kg once daily for five days
Result:	Showed a reduction in parasite burden of >98-99% with no significant adverse effects observed in mice.

Caution: Product has not been fully validated for medical applications. For research use only.  Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com  Address: 1 Deer Park Dr., Suite Q, Monmouth Junction, NJ 08852, USA
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