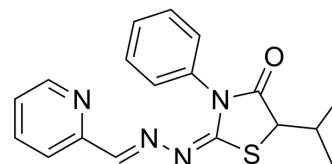


Antiparasitic agent-16

Cat. No.:	HY-149080
Molecular Formula:	C ₁₈ H ₁₈ N ₄ OS
Molecular Weight:	338.43
Target:	Parasite; Necroptosis
Pathway:	Anti-infection; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antiparasitic agent-16, a pyridine-thiazolidinone, has anti- <i>Trypanosoma cruzi</i> and leishmanicidal activities. Antiparasitic agent-16 has IC ₅₀ s of 1.0 μM and 0.6 μM against trypomastigote and amastigote forms of <i>T. cruzi</i> . Antiparasitic agent-16 has IC ₅₀ s of 150.2 μM and 16.75 μM against trypomastigote and amastigote forms of <i>L. amazonensis</i> . Antiparasitic agent-16 induces parasite cell death through necrosis induction. Antiparasitic agent-16 induces morphological changes such as shortening, retraction and curvature of the parasite body and leakage of internal content with <i>T. cruzi</i> trypomastigotes ^[1] .
IC₅₀ & Target	<i>Trypanosoma</i>
In Vitro	<p>Antiparasitic agent-16 (compound 15) has a CC₅₀ of 47.4 μM in RAW 264.7^[1].</p> <p>Antiparasitic agent-16 (1.0, 2.0 μM; 24 h) promotes morphological changes such as shortening, retraction and curvature of the parasite body in trypomastigotes forms of <i>T. cruzi</i>. Antiparasitic agent-16 dose-dependently induces significant alterations compatible with apoptosis in trypomastigotes^[1].</p> <p>Antiparasitic agent-16 (10 μg/mL; 24 h, 48 h, 72 h, and 96 h) causes a significant reduction in IL-10 production in supernatants of stimulated murine splenocytes^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Juliana Maria da Conceição, et al. Structural design, synthesis, and anti-*Trypanosomatidae* profile of new Pyridyl-thiazolidinones. *Eur J Med Chem.* 2023 Apr 6;254:115310.

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

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