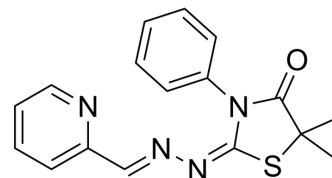


## Antiparasitic agent-15

Cat. No.:	HY-149079
Molecular Formula:	C <sub>17</sub> H <sub>16</sub> N <sub>4</sub> OS
Molecular Weight:	324.4
Target:	Parasite; Necroptosis
Pathway:	Anti-infection; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Antiparasitic agent-15, a pyridine-thiazolidinone, has anti- <i>Trypanosoma cruzi</i> and leishmanicidal activities. Antiparasitic agent-15 has IC <sub>50</sub> s of 0.9 μM and 0.64 μM against trypomastigote and amastigote forms of <i>T. cruzi</i> . Antiparasitic agent-15 has IC <sub>50</sub> s of 42.2 μM and 9.58 μM against trypomastigote and amastigote forms of <i>L. amazonensis</i> . Antiparasitic agent-15 induces parasite cell death through necrosis induction. Antiparasitic agent-15 induces morphological changes such as shortening, retraction and curvature of the parasite body and leakage of internal content with <i>T. cruzi</i> trypomastigotes <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	<i>Trypanosoma</i>
<b>In Vitro</b>	<p>Antiparasitic agent-15 (compound 18) has a CC<sub>50</sub> of 146.1 μM in RAW 264.7<sup>[1]</sup>.</p> <p>Antiparasitic agent-15 (0.9, 1.8 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-15 dose-independently induces significant alterations compatible with apoptosis in trypomastigotes<sup>[1]</sup>.</p> <p>Antiparasitic agent-15 (10 μg/mL; 24 h, 48 h, 72 h, and 96 h) causes a significant reduction in IL-10 production and an increase in IL-6 in supernatants of stimulated murine splenocytes<sup>[1]</sup>.</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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