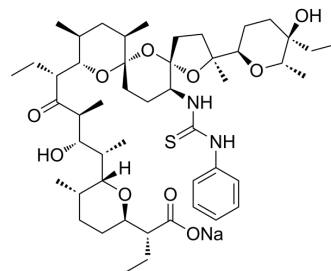


Antitrypanosomal agent 12

Cat. No.:	HY-149985
Molecular Formula:	C ₄₉ H ₇₇ N ₂ NaO ₁₀ S
Molecular Weight:	909.2
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antitrypanosomal agent 12 is a C20-phenylthiourea with trypanocidal and cytotoxic activities. Antitrypanosomal agent 12 shows antitrypanosomal activity with 50% growth inhibition (GI ₅₀) values of 0.22 μM. Antitrypanosomal agent 12 induces faster cell swelling in bloodstream-form trypanosomes than Salinomycin (HY-15597) ^[1] .
In Vitro	Antitrypanosomal agent 12 (compound 4d) (100 mM; 60 min) displays faster cell swelling activity than native Salinomycin in <i>T. brucei</i> bloodstream forms ^[1] . Antitrypanosomal agent 12 shows selectivity on <i>T. brucei</i> over HL-60 cells with MIC values of 1 μM (<i>T. brucei</i>), and 10 μM (HL-60 cells), respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Antoszczak M, et al. Synthesis of urea and thiourea derivatives of C20-epi-aminosalinomycin and their activity against *Trypanosoma brucei*. *Eur J Med Chem.* 2023 Mar 15;250:115241.

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

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