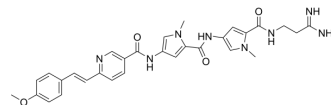


S-MGB-234

Cat. No.:	HY-145287
CAS No.:	1970223-53-0
Molecular Formula:	C ₃₀ H ₃₂ N ₈ O ₄
Molecular Weight:	568.63
Target:	DNA/RNA Synthesis; Parasite
Pathway:	Cell Cycle/DNA Damage; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	S-MGB-234 is a minor groove binder of Animal African Trypanosomiasis (AAT). S-MGB-234 displays excellent in vitro activities against the principal causative organisms of AAT; Trypanosoma congolense, and Trypanosoma vivax. S-MGB-234 does not show cross-resistance with the current diamidine agents and are not internalized via the transporters used by diamidines ^[1] .
IC₅₀ & Target	Trypanosoma
In Vitro	S-MGB-234 (compound 7) (69 hours) shows nontoxic to L6 cells with an EC ₅₀ of 20.39 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	S-MGB-234 (compound 7) provides total cure and no relapses in mice (cured/infected, 4/4), when treated with 2 applications of 50 mg/kg i.p.. Partial cure (1/4) is seen in mice treated with four daily applications of 10 mg/kg i.p., whilst only two applications of S-MGB-234 (compound 7) at 10 mg/kg i.p. gives no cure but prolongs survival relative to the untreated control ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Giordani F, et al. Novel Minor Groove Binders Cure Animal African Trypanosomiasis in an in Vivo Mouse Model [published correction appears in J Med Chem. 2021 Dec 23;64(24):18236]. J Med Chem. 2019;62(6):3021-3035.

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

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