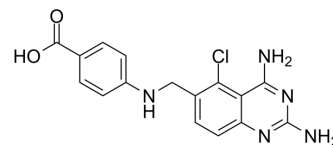


DQn-1

Cat. No.:	HY-154807
CAS No.:	57343-54-1
Molecular Formula:	C ₁₆ H ₁₄ ClN ₅ O ₂
Molecular Weight:	343.77
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DQn-1 is a potent antifolate with activity against <i>Mycobacterium tuberculosis</i> (Mtb) (MIC ₉₀ =0.03 μM). DQn-1 directly inhibits DHFR enzyme activity, with IC ₅₀ s of 8.7 and 7.6 nM for Mtb and human DHFR enzyme, respectively ^[1] .
In Vitro	DQn-1 inhibits <i>Mycobacterium tuberculosis</i> , with MIC ₉₀ s of 0.03 μM and 1 μM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	DQn-1 (5-10 mg/kg; p.o. for 8 days) fails to detect any significant reduction in Mtb burden of mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Kumar A, et, al. A Focused Screen Identifies Antifolates with Activity on *Mycobacterium tuberculosis*. ACS Infect Dis. 2015 Dec 11;1(12):604-14.

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

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