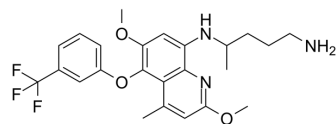


Tafenoquine

Cat. No.:	HY-111529
CAS No.:	106635-80-7
Molecular Formula:	C ₂₄ H ₂₈ F ₃ N ₃ O ₃
Molecular Weight:	463.49
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tafenoquine (WR 238605) is an 8-aminoquinoline. Tafenoquine is an anti-malarial prophylactic agent ^[1] .
IC ₅₀ & Target	Anti-malarial ^[1]
In Vivo	Tafenoquine exhibits no anti-malarial activity in CYP 2D knock-out mice when dosed at their ED ₁₀₀ values (3 mg/kg) established in WT mice. Tafenoquine anti-malarial activity is partially restored in humanized/CYP 2D6 knock-in mice when tested at two times its ED ₁₀₀ (6 mg/kg) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- mSystems. 2023 Dec 4:e0102623.
- J Appl Microbiol. 2024 Jan 4:lxae001.
- Cell Physiol Biochem. 2016;39(6):2464-2476.
- Cell Physiol Biochem. 2016;39(6):2464-2476.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Marcisin SR, et al. Tafenoquine and NPC-1161B require CYP 2D metabolism for anti-malarial activity: implications for the 8-aminoquinoline class of anti-malarial compounds. Malar J. 2014 Jan 3;13:2.

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

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