Tafenoquine Succinate

Cat. No.: HY-111529A

CAS No.: 106635-81-8

Molecular Formula: $C_{28}H_{34}F_3N_3O_7$

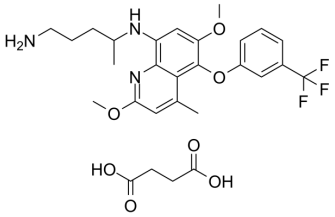
Molecular Weight: 581.58

Target: Parasite

Pathway: Anti-infection

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 2 years; -20°C, 1 year (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (214.93 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7195 mL	8.5973 mL	17.1945 mL
	5 mM	0.3439 mL	1.7195 mL	3.4389 mL
	10 mM	0.1719 mL	0.8597 mL	1.7195 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (3.58 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (3.58 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (3.58 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tafenoquine Succinate (WR 238605 Succinate) 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

- Cell Physiol Biochem. 2016;39(6):2464-2476.
- Cell Physiol Biochem. 2016;39(6):2464-2476.

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REFERENCES

[1]. Marcsisin 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.

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