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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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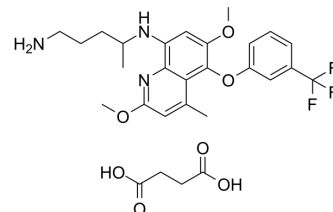
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Tafenoquine Succinate

Cat. No.:	HY-111529A
CAS No.:	106635-81-8
Molecular Formula:	C ₂₈ H ₃₄ F ₃ N ₃ O 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 Concentration	Mass	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.

See more customer validations on www.MedChemExpress.com

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.

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

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