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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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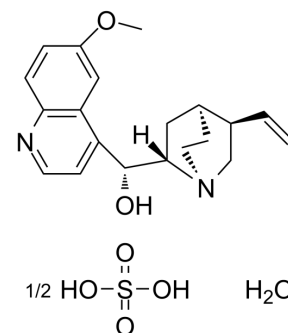
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Quinine hemisulfate hydrate

Cat. No.:	HY-D0143B
CAS No.:	207671-44-1
Molecular Formula:	C ₂₀ H ₂₄ N ₂ O ₂ ·1/2H ₂ O ₄ S·H ₂ O
Molecular Weight:	391.48
Target:	Parasite; Potassium Channel
Pathway:	Anti-infection; Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Quinine hemisulfate hydrate, an alkaloid derived from the bark of the cinchona tree, acts as an anti-malaria agent. Quinine hemisulfate hydrate is a potassium channel inhibitor that inhibits WT mouse Slo3 (K _{Ca} 5.1) channel currents evoked by voltage pulses to +100 mV, with an IC ₅₀ of 169 μM ^{[1][2]} .
IC₅₀ & Target	IC50: Parasite ^[1] , 169 μM (mSlo3) ^[2]

CUSTOMER VALIDATION

- Mol Med Rep. 2021 Mar 2.
- Norwegian University of Science and Technology, Faculty of Medicine and Health sciences. 2019 Sep.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Jane Achan , et al. Quinine, an Old Anti-Malarial Drug in a Modern World: Role in the Treatment of Malaria. Malar J. 2011 May 24;10:144.
- [2]. Wrighton DC, et al. Mechanism of inhibition of mouse Slo3 (KCa 5.1) potassium channels by quinine, quinidine and barium. Br J Pharmacol. 2015 Sep;172(17):4355-63.

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

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