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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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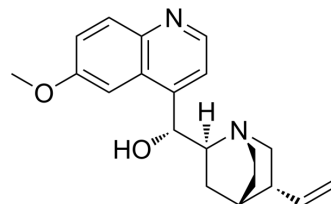
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Quinine (Standard)

Cat. No.:	HY-D0143R
CAS No.:	130-95-0
Molecular Formula:	C ₂₀ H ₂₄ N ₂ O ₂
Molecular Weight:	324.42
Target:	Dengue virus; Potassium Channel; Parasite; Flavivirus
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 (Standard) is the analytical standard of Quinine. This product is intended for research and analytical applications. Quinine is an alkaloid derived from the bark of the cinchona tree, acts as an anti-malaria agent. Quinine 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]

REFERENCES

- [1]. Wrighton DC, et al. Mechanism of inhibition of mouse Slo3 (K_{Ca} 5.1) potassium channels by quinine, quinidine and barium. *Br J Pharmacol.* 2015 Sep;172(17):4355-63.
- [2]. 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.
- [3]. Shilu Malakar et al. Drug repurposing of quinine as antiviral against dengue virus infection. *Virus Res.* 2018 Aug 15;255:171-178. doi: 10.1016/j.virusres.2018.07.018. Epub 2018 Jul 25.
- [4]. Jhanwar, Deepika et al. Chemoprevention of DMBA induced skin carcinogenesis in swiss albino mice by quinine sulfate.(2016): 2636-2640.
- [5]. Ebenezer O Farombi, et al. Quercetin protects against testicular toxicity induced by chronic administration of therapeutic dose of quinine sulfate in rats. *J Basic Clin Physiol Pharmacol.* 2012 Feb 27;23(1):39-44.

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

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