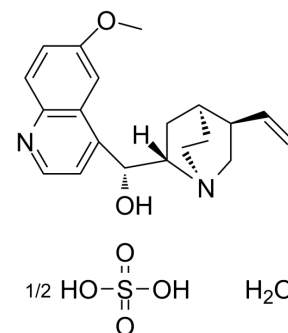


## Quinine hemisulfate hydrate

Cat. No.:	HY-D0143B
CAS No.:	207671-44-1
Molecular Formula:	C <sub>20</sub> H <sub>24</sub> N <sub>2</sub> O <sub>2</sub> ·1/2H <sub>2</sub> O <sub>4</sub> S·H <sub>2</sub> 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

<b>Description</b>	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 <sub>Ca</sub> 5.1) channel currents evoked by voltage pulses to +100 mV, with an IC <sub>50</sub> of 169 μM <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC50: Parasite <sup>[1]</sup> , 169 μM (mSlo3) <sup>[2]</sup>

### 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](http://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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