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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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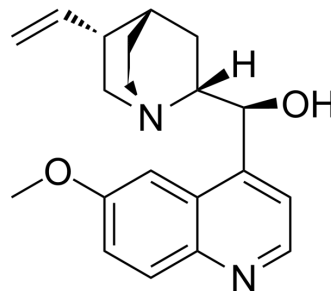
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Quinidine

| | |
|--------------------|---|
| Cat. No.: | HY-B1751H |
| CAS No.: | 56-54-2 |
| Molecular Formula: | C ₂₀ H ₂₄ N ₂ O ₂ |
| Molecular Weight: | 324.42 |
| Target: | Sodium Channel; Parasite |
| Pathway: | Membrane Transporter/Ion Channel; Anti-infection |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

Description

Quinidine is a stereoisomer of Quinine (HY-D0143), a natural compound derived from the bark of the South American cinchona tree. Quinidine is one of the earliest known antiarrhythmic agents and is available as a Class 1a antiarrhythmic and antimalarial drug. Quinidine inhibits the rapid inward sodium current, resulting in the suppression of action potential phase 0. This mechanism suppresses the excitability of the heart muscle, ultimately leading to longer duration of action potentials and reduced automaticity. Quinidine shows a "use-dependent blocking" effect on the rapidly inward sodium current, meaning that the drug's effects increases at higher heart rates and decreases at lower heart rates. Quinidine can be used in the study of Plasmodium falciparum malaria and ventricular arrhythmias^[1].

REFERENCES

[1]. Jain A, et al. Quinidine. [Updated 2023 Aug 2]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2024 Jan-.

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

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