

Product Name: Quinidine

Catalog No.: 4108

Batch No.: 1

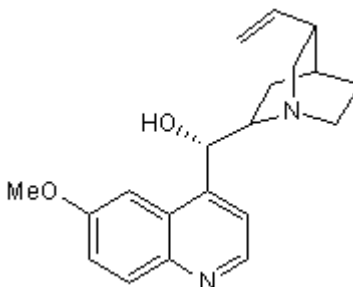
CAS Number: 56-54-2

EC Number: 200-279-0

IUPAC Name: (S)-(6-Methoxyquinolin-4-yl)((2R,4S,8R)- 8-vinylquinuclidin-2-yl)methanol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₄N₂O₂
Batch Molecular Weight: 324.42
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 25 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 86.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	74.04	7.46	8.64
Found	73.94	7.42	8.6

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Description:

Class IA antiarrhythmic; reduces both Na⁺ and K⁺ channel currents, including I_{Na}, I_{Kr} and I_{Ks}. Prolongs QT and induces torsade de pointes (TdP).

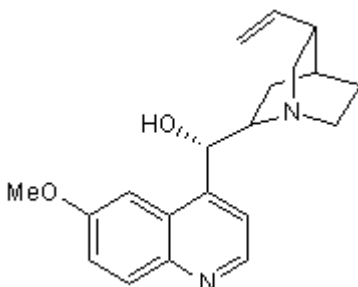
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Solubility & Usage Info:

DMSO to 100 mM

ethanol to 25 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Caballero et al (2003) Effects of flecainide and quinidine on Kv4.2 currents: voltage dependence and role of S6 valines. *Br.J.Pharmacol.* **138** 1475. PMID: 12721103.

Borggreffe et al (2005) Short QT syndrome genotype-genotype correlations. *J.Electrocardiol.* **38** 75. PMID: 16226079.

Wu et al (2008) Role of late sodium current in modulating the proarrhythmic and antiarrhythmic effects of quinidine. *Heart Rhythm.* **5** 1726. PMID: 19084812.

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