

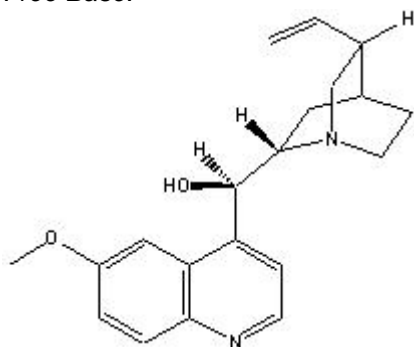
TECHNICAL INFORMATION

Catalog Number: 102792, 150152, 156486

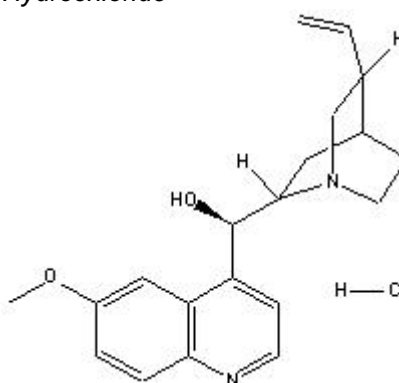
Quinine

Structure:

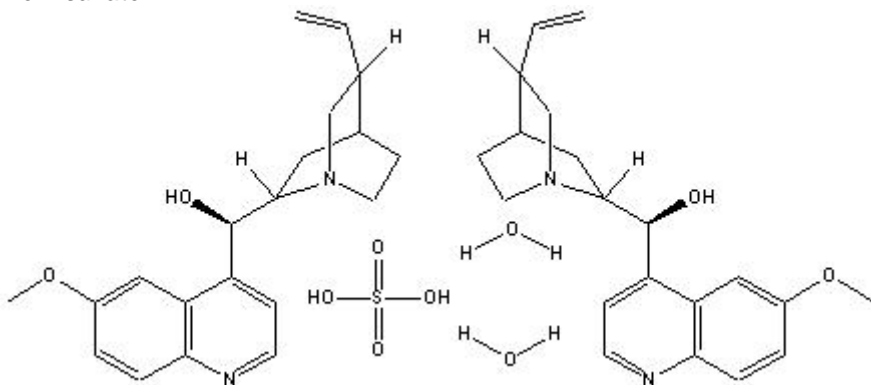
Free Base:



Hydrochloride



Hemisulfate:



Molecular Formula:

Free Base
 $C_{20}H_{24}N_2O_2$

Hemisulfate
 $C_{20}H_{24}N_2O_2 \cdot \frac{1}{2}H_2SO_4$

Hydrochloride
 $C_{20}H_{24}N_2O_2 \cdot HCl$

Molecular Weight:

324.4

373.5

360.9

CAS #

130-95-0

6119-70-6

6119-47-7

Synonym: (8a, 9R)-6'-Methoxycinchonan-9-ol

Physical Description: White Powder

Purity: >99%

Solubility:¹

Free Base: Soluble in water (1 g/1900 ml @ 25°C; 1 g/760 ml @ 100°C), ethanol (1 g/0.8 ml), benzene (1 g/80 ml @ 25°C; 1 g/18 ml @ 50°C), chloroform (1 g/1.2 ml), anhydrous ether (1 g/250 ml), glycerol (1 g/20 ml) or 10% ammonia water (1 g/1900 ml); almost insoluble in petroleum ether.

Hemisulfate: Soluble in water (1 g/810 ml @ 25°C; 1 g/32 ml @ 100°C), ethanol (1 g/120 ml @ 25°C; 1 g/10 ml @ 78°C); slightly soluble in chloroform or ether. Freely soluble in a mixture of 2 volumes chloroform and 1 volume absolute ethanol.

Hydrochloride: Soluble in water (1 g/16 ml @ 25°C; 1 g/0.5 ml @ 100°C), ethanol (1 g/1 ml), glycerol (~1 g/7 ml), chloroform (~1 g/ml), or ether (1 g/350 ml).

Description: An alkaloid originally isolated from the Cinchona family of South American trees. An antimalarial agent, anticholinergic, antihypertensive and hypoglycemic agent; also used as a resolving agent. A potassium channel blocker. Also used as a flavoring agent in carbonated beverages, a skeletal muscle relaxant and an antiprotozoal agent for fish.¹ A chiral

catalyst used in highly enantioselective [2+2] cycloadditions.¹⁷ A resolving agent for carboxylic acids.² Catalyzes the kinetic resolution of furanones.³

Note: Light sensitive

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