
Product Data Sheet

Product Name: Quinidine sulfate

Cat. No.: GC25812

Chemical Properties

Cas. No. 6591-63-5

Formula C₄₀H₄₈N₄O₄.H₂SO₄.2H₂O

M.Wt 648.83

Solubility

Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

Quinidine (Chinidin, Pitayine, β-quinine, (+)-quinidine) acts as a blocker of voltage-gated sodium channels, also an antimuscarinic and antimalarial.

Quinidine selectively reduces the proliferation of merlin-deficient HMM cell lines by causing a G₀/G₁ arrest, whereas the proliferation rates of merlin-expressing HMM cell lines remain unchanged. In addition to its function as a channel blocker, quinidine is an inhibitor of a specific isoform of the cytochrome P450 family (CYP2D6), which is involved in the detoxification and metabolism of multiple commonly prescribed drugs as well as numerous endogenous substrates[1].

Quinidine is a potent and selective inhibitor of P450db and that quinidine can inhibit the in vivo metabolism of debrisoquine in humans. Quinidine is an inhibitor of amphetamine metabolism in vivo[2].

[1] Tsuruo T, et al. Cancer Res. 1984, 44(10):4303-7. [2] David E Moody, et al. Journal of Analytical Toxicology. 1990, 14: 311-317.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA