

Product Data Sheet

Product Name: Febrifugine

Cat. No.: GC38614

Chemical Properties

Cas. No. 24159-07-7

SMILES O=C1N(CC(C[C@H]2NCCC[C@@H]2O)=O)C=NC3=C1C=CC=C3

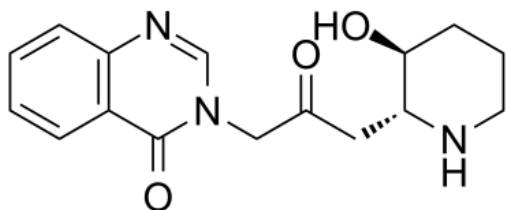
Formula $C_{16}H_{19}N_3O_3$ M.Wt 301.34

Solubility DMF: 1.5 mg/ml, DMSO: 3.0 mg/ml, Ethanol: 0.1 mg/ml, PBS (pH 7.2): 2.5 mg/ml
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

Febrifugine is a quinazolinone alkaloid found in the roots and leaves of *Dichroa febrifuga*, with

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antimalarial activity [1].

[1]. Herman JD, et al. The cytoplasmic prolyl-tRNA synthetase of the malaria parasite is a dual-stage target of febrifugine and its analogs. *Sci Transl Med*. 2015 May 20;7(288):288ra77. [2]. McLaughlin NP, et al. The chemistry and biology of febrifugine and halofuginone. *Bioorg Med Chem*. 2014 Apr 1;22(7):1993-2004.

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