
Product Data Sheet

Product Name: Tafenoquine (WR 238605)

Cat. No.: GC32314

Chemical Properties

Cas. No. 106635-80-7

SMILES CC1=CC(OC)=NC2=C1C(OC3=CC=CC(C(F)(F)F)=C3)=C(OC)C=C2NC(CCCN)CFormula C₂₄H₂₈F₃N₃O₃ M.Wt 463.49

Solubility Soluble in DMSO 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

Tafenoquine is an aminoquinoline antimalarial agent.¹ It is active against multidrug-resistant clinical isolates of *P. falciparum* (IC₅₀s = 64.6-110.4 ng/ml). Tafenoquine (25 or 50 mg/kg) inhibits sporozoite transmission to mosquitos fed on *P. berghei*-infected mice.² It also suppresses parasitemia in a hamster model of *B. microti* infection when administered at doses ranging from 3.25 to 52 mg/kg.³

1.Ohrt, C., Willingmyre, G.D., Lee, P., et al. Assessment of azithromycin in combination with other antimalarial drugs against Plasmodium falciparum in vitro *Antimicrob. Agents Chemother.* 46(8)2518-2524(2002) 2.Coleman, R.E. Sporontocidal activity of the antimalarial WR-238605 against Plasmodium berghei ANKA in Anopheles stephensi *Am. J. Trop. Med. Hyg.* 42(3)196-205(1990) 3.Marley, S.E., Eberhard, M.L., Steurer, F.J., et al. Evaluation of selected antiprotozoal drugs in the Babesia microti-hamster model *Antimicrob. Agents Chemother.* 41(1)91-94(1997)

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

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