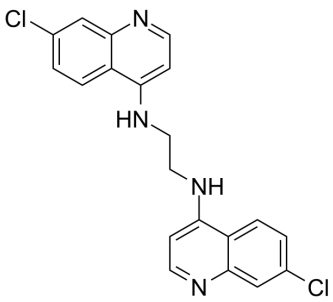
NSC5844

Cat. No.:	HY-100033
CAS No.:	140926-75-6
Molecular Formula:	$C_{20}H_{16}Cl_2N_4$
Molecular Weight:	383.27
Target:	Parasite
Pathway:	Anti-infection
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 1 mg/mL (2.61 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6091 mL	13.0456 mL	26.0913 mL
	5 mM	---	---	---
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

NSC5844 (RE-640) is a 4-aminoquinoline derivative, with antitumor and antimalarial activity.

IC_{50} & Target

Parasite[2]

In Vitro

NSC5844 (Compound 10) is a 4-aminoquinoline derivative, and has antitumor activity with GI_{50}s of 7.35 ± 0.10 μM and 14.80 ± 0.35 μM against MDA-MB-468 and MCF-7 cells, respectively[1]. NSC5844 (Compound 1) is cytotoxic to P. falciparum, inhibits the growth of chloroquine-sensitive (D-6) and -resistant (W-2) clones of P. falciparum, with IC_{50}s of 17 and 27 nM, respectively[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zhang H, et al. Synthesis and in vitro cytotoxicity evaluation of 4-aminoquinoline derivatives. Biomed Pharmacother. 2008 Feb;62(2):65-9. Epub 2007 May 24.

[2]. Vennerstrom JL, et al. Bisquinolines. 1. N,N-bis(7-chloroquinolin-4-yl)alkanediamines with potential against chloroquine-resistant malaria. J Med Chem. 1992 May 29;35(11):2129-34.

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