

Product Data Sheet

Product Name: NSC5844 (RE-640)

Cat. No.: GC33969

Chemical Properties

Cas. No. 140926-75-6

SMILES C1C=CC=C2C(NCCNC3=CC=NC4=CC(Cl)=CC=C34)=CC=NC2=C1

Formula $C_{20}H_{16}Cl_2N_4$ M.Wt 383.27

Solubility DMF: 0.33 mg/ml, DMSO: 0.25 mg/ml, Ethanol: slightly soluble
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.

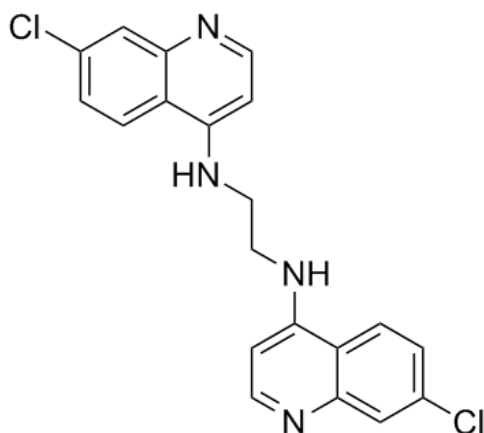
Caution: Product has not been fully validated for medical applications. For research use only.

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

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

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Structure



Background

NSC5844 is a 4-aminoquinoline derivative, with antitumor and antimalarial activity.

NSC5844 (Compound 10) is a 4-aminoquinoline derivative, and has antitumor activity with GI50s of $7.35 \pm 0.10 \mu\text{M}$ and $14.80 \pm 0.35 \mu\text{M}$ 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 IC50s of 17 and 27 nM, respectively[2].

[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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