
Product Data Sheet

Product Name: Dofequidar

Cat. No.: GC35892

Chemical Properties

Cas. No. 129716-58-1

SMILES OC(COC1=C2C=CC=NC2=CC=C1)CN3CCN(C(C(C4=CC=CC=C4)C5=CC=CC=C5)=O)CC3Formula C₃₀H₃₁N₃O₃

M.Wt

481.59

Solubility Soluble in DMSO

Storage

Store at -20°C

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

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

Structure **Background**

Dofequidar is a quinoline derivative and inhibitor of multidrug resistance.^{1,2} It inhibits P-glycoprotein in a photolabeling assay when used at a concentration of 100 μM.¹ Dofequidar (10 μM) increases intracellular accumulation of [³H]-vincristine in HL-60R cells endogenously expressing the gene encoding multidrug resistance-associated protein (MRP).² It restores susceptibility to vincristine- or doxorubicin-induced cytotoxicity in vincristine-resistant P388, vincristine-resistant K562, and doxorubicin-resistant K562 cells in a concentration-dependent manner.¹ Dofequidar (80 mg/kg twice per day) increases survival in a vincristine-resistant P388 murine leukemia model compared with untreated controls when administered in combination with vincristine .

1.Sato, W., Fukazawa, N., Nakanishi, O., et al.Reversal of multidrug resistance by a novel quinoline derivative, MS-209Cancer Chemother. Pharmacol.35(4)271-277(1995) 2.Narasaki, F., Oka, M., Fukuda, M., et al.A novel quinoline derivative, MS-209, overcomes drug resistance of human lung cancer cells expressing the multidrug resistance-associated protein (MRP) geneCancer Chemother. Pharmacol.40(5)425-432(1997)

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
