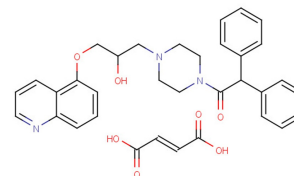


Dofequidar fumarate

Chemical Properties

CAS No.:	153653-30-6
Formula:	C ₃₄ H ₃₅ N ₃ O ₇
Molecular Weight:	597.66
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Dofequidar fumarate (MS-209 fumarate), an orally active quinoline compound, has been reported to overcome MDR by inhibiting ABCB1/P-gp, ABCC1/MDR-associated protein 1, or both.
Targets (IC ₅₀)	Others: None

Solubility Information

Solubility	DMSO: 56 mg/mL (93.70 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.673 mL	8.366 mL	16.732 mL
5 mM	0.335 mL	1.673 mL	3.346 mL
10 mM	0.167 mL	0.837 mL	1.673 mL
50 mM	0.033 mL	0.167 mL	0.335 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Nakanishi O, et al. Potentiation of the antitumor activity by a novel quinoline compound, MS-209, in multidrug-resistant solid tumor cell lines. *Oncol Res.* 1997;9(2):61-9.
2. Naito M, et al. MS-209, a quinoline-type reversal agent, potentiates antitumor efficacy of docetaxel in multidrug-resistant solid tumor xenograft models. *Clin Cancer Res.* 2002 Feb;8(2):582-8.
3. Nokihara H, et al. A new quinoline derivative MS-209 reverses multidrug resistance and inhibits multiorgan metastases by P-glycoprotein-expressing human small cell lung cancer cells. *Jpn J Cancer Res.* 2001 Jul;92(7):785-92.
4. Katayama R, et al. Dofequidar fumarate sensitizes cancer stem-like side population cells to chemotherapeutic drugs by inhibiting ABCG2/BCRP-mediated drug export. *Cancer Sci.* 2009 Nov;100(11):2060-8.

Inhibitors · Natural Compounds · Compound Libraries

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