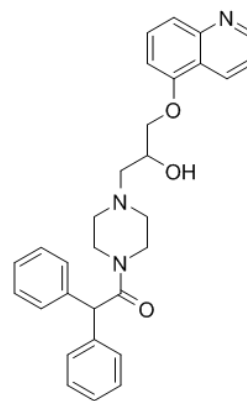


**Product Name** : Dofequidar  
**Cat. No.** : PC-45136  
**CAS No.** : 129716-58-1  
**Molecular Formula** : C<sub>30</sub>H<sub>31</sub>N<sub>3</sub>O<sub>3</sub>  
**Molecular Weight** : 481.5854  
**Target** : P-glycoprotein (P-gp)  
**Solubility** : 10 mM in DMSO



### Biological Activity

Dofequidar (MS-209) is an orally active quinoline compound that can reverse P-glycoprotein (**P-gp**)-mediated MDR. Dofequidar completely reverses resistance against vincristine in vitro in multidrug-resistant variants of mouse leukemia P388 cells and human leukemia K562 cells at 1-10  $\mu$ M. Dofequidar greatly reduces the SP-derived tumor growth in vivo combined with CPT-11.

### References

- Nakanishi O, et al. *Oncol Res.* 1997;9(2):61-9.  
Sato W, et al. *Cancer Chemother Pharmacol.* 1995;35(4):271-7.  
Katayama R, et al. *Cancer Sci.* 2009 Nov;100(11):2060-8.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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