

**Product Name:** Zosuquidar trihydrochloride

**Catalog No.:** 5456

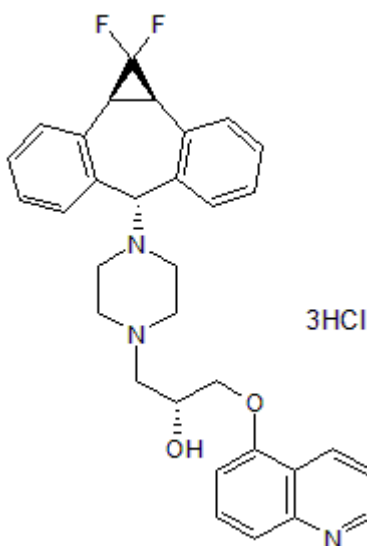
**Batch No.:** 1

CAS Number: 167465-36-3

IUPAC Name: (*αR*)-4-[(1*αα*,6*α*,10*βα*)-1,1-Difluoro-1,1*a*,6,10*b*-tetrahydrodibenzo[*a,e*]cyclopropa[*c*]cyclohepten-6-yl]-*α*-[(5-quinolinyl)oxy)methyl]-1-piperazineethanol trihydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>32</sub>H<sub>31</sub>F<sub>2</sub>N<sub>3</sub>O<sub>2</sub>·3HCl·4½H<sub>2</sub>O  
**Batch Molecular Weight:** 718.06  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 50 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	53.53	6.04	5.85
Found	53.26	5.88	5.83

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

High affinity P-glycoprotein (P-gp) inhibitor ( $K_d = 79$  nM). Restores doxorubicin (Cat. No. 2252) sensitivity in P-gp-expressing multidrug (MDR) resistant cancer cell lines. Also potentiates antitumor efficacy of taxol (Cat. No. 1097) in a MDR human non-small cell lung carcinoma xenograft mouse model.

**Physical and Chemical Properties:**

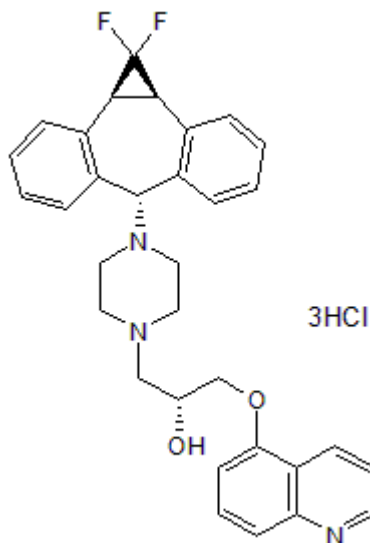
Batch Molecular Formula:  $C_{32}H_{31}F_2N_3O_2 \cdot 3HCl \cdot 4\frac{1}{2}H_2O$

Batch Molecular Weight: 718.06

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 50 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Dantzig et al** (1996) Reversal of P-glycoprotein-mediated multidrug resistance by a potent cyclopropylidibenzosuberane modulator, LY335979. *Cancer Res.* **56** 4171. PMID: 8797588.

**Dantzig et al** (1999) Selectivity of the multidrug resistance modulator, LY335979, for P-glycoprotein and effect on cytochrome P-450 activities. *J.Pharmacol.Exp.Ther.* **290** 854. PMID: 10411602.

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