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Certificate of Analysis

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Product Name: Zosuquidar trihydrochloride

Catalog No.: 5456 Batch No.: 1

CAS Number: 167465-36-3

 $\label{eq:IUPAC Name:} IUPAC Name: (\alpha R)-4-[(1a\alpha,6\alpha,10b\alpha)-1,1-Difluoro-1,1a,6,10b-tetrahydrodibenzo[a,e]cyclopropa[c]cyclohepten-6-yl]-\alpha-[(5-quinolinyloxy)methyl]-1-piperazineethanol trihydrochloride$

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage:

Batch Molecular Structure:

 $C_{32}H_{31}F_2N_3O_2.3HCl.4\frac{1}{2}H_2O$ 718.06 White solid DMSO to 50 mM Store at -20°C

2. ANALYTICAL DATA

 HPLC:
 Shows 97.3% purity

 ¹H 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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Print Date: Jan 13th 2025

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Product Name: Zosuquidar trihydrochloride

Catalog No.: 5456 E

Batch No.: 1

CAS Number: 167465-36-3 IUPAC Name: (α*R*)-4-[(1aα.)

me: (*αR*)-4-[(1aα,6α,10bα)-1,1-Difluoro-1,1a,6,10b-tetrahydrodibenzo[*a*,*e*]cyclopropa[*c*]cyclohepten-6-yl]-α-[(5quinolinyloxy)methyl]-1-piperazineethanol trihydrochloride

Description:

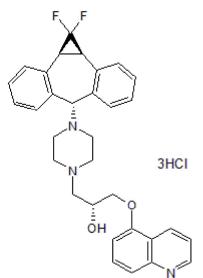
Zosuquidar trihydrochloride is a high affinity P-glycoprotein (P-gp) inhibitor ($K_d = 79$ nM). Restores doxorubicin (Cat. No. 2252) sensitivity in P-gp-expressing multidrug (MDR) resistant cancer cell lines. Also potentiates antitumor efficacy of taxol (Cat. No. 1097) in a MDR human non-small cell lung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

Physical and Chemical Properties:

Batch Molecular Formula: $C_{32}H_{31}F_2N_3O_2.3HCI.4\frac{1}{2}H_2O$ Batch Molecular Weight: 718.06 Physical Appearance: White solid

Minimum Purity: ≥97%

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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* (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.

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

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