

Product Name: Reversan

Catalog No.: 3722

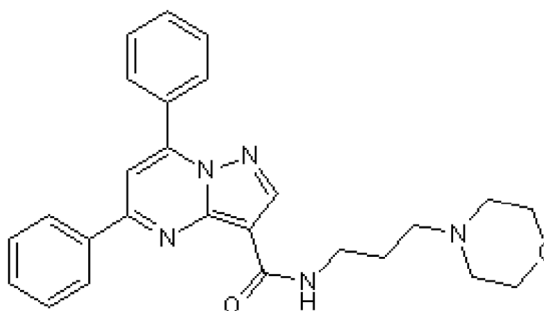
Batch No.: 1

CAS Number: 313397-13-6

IUPAC Name: *N*-[3-(4-Morpholinyl)propyl]-5,7-diphenylpyrazolo[1,5-*a*]pyrimidine-3-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₇N₅O₂
Batch Molecular Weight: 441.52
Physical Appearance: Yellow solid
Solubility: DMSO to 20 mM
ethanol to 5 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 96.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 70.73 | 6.16 | 15.86 |
| Found | 70.75 | 6.18 | 15.9 |

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

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Description:

Reversan is a selective inhibitor of multidrug resistance-associated protein 1 (MRP1) and P-glycoprotein (P-gp). Increases the sensitivity of MRP1-overexpressing tumor cells (MCF7/VP) to doxorubicin (Cat. No. 2252), vincristine (Cat. No. 1257) and etoposide (Cat. No. 1226) by 3.8-, 14.6- and 11.6-fold respectively. Increases the efficacy of vincristine and etoposide in murine models of neuroblastoma in vivo. Does not sensitize MRP2, MRP3, MRP4 or MRP5 transporters to known substrates.

Physical and Chemical Properties:

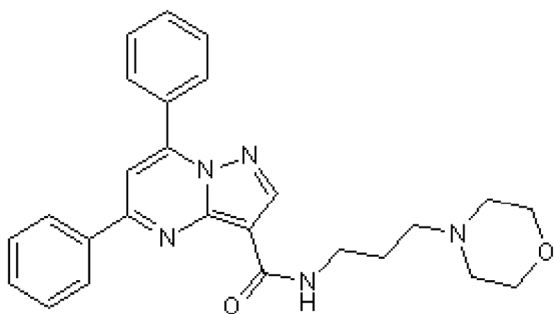
Batch Molecular Formula: C₂₆H₂₇N₅O₂

Batch Molecular Weight: 441.52

Physical Appearance: Yellow solid

Minimum Purity: ≥95%

Batch Molecular Structure:



References:

Burkhart *et al* (2009) Small-molecule multidrug resistance-associated protein 1 inhibitor reversan increases the therapeutic index of chemotherapy in mouse models of neuroblastoma. *Cancer Res.* **69** 6573. PMID: 19654298.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mM

ethanol to 5 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.

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