

**Product Name:** Reversan

**Catalog No.:** 3722

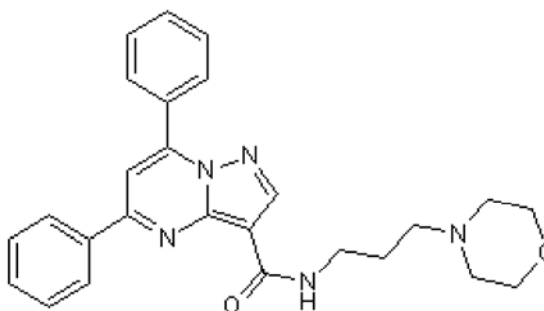
**Batch No.:** 1

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:** C<sub>26</sub>H<sub>27</sub>N<sub>5</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 441.52  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 25 mM  
ethanol to 5 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 96.9% purity  
**<sup>1</sup>H 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:**

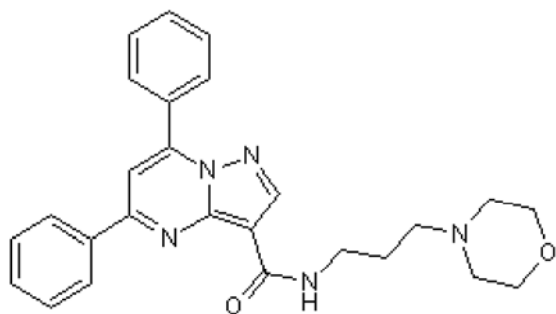
Batch Molecular Formula: C<sub>26</sub>H<sub>27</sub>N<sub>5</sub>O<sub>2</sub>

Batch Molecular Weight: 441.52

Physical Appearance: Yellow solid

**Minimum Purity:** ≥95%

**Batch Molecular Structure:**



**References:**

**Burkhardt 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 25 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. 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.

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