

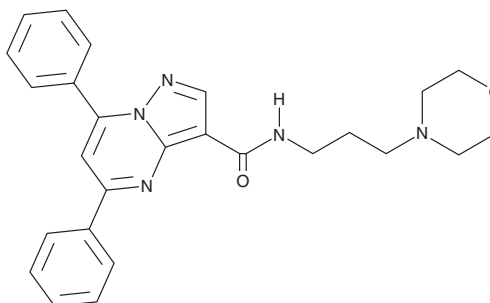
PRODUCT INFORMATION



Reversan

Item No. 46558

CAS Registry No.: 313397-13-6
Formal Name: N-[3-(4-morpholinyl)propyl]-5,7-diphenyl-pyrazolo[1,5-a]pyrimidine-3-carboxamide
Synonym: CBLC4H10
MF: C₂₆H₂₇N₅O₂
FW: 441.5
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Reversan is supplied as a solid. A stock solution may be made by dissolving the reversan in the solvent of choice, which should be purged with an inert gas. Reversan is sparingly soluble (1-10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in ethanol.

Description

Reversan is an inhibitor of multidrug resistance-associated protein 1 (MRP1).¹ It sensitizes MCF-7/VP breast cancer cells, which have amplified *MRP1* and low P-glycoprotein/MDR1 expression, to the *MRP1* substrates doxorubicin (Item No. 15007), vincristine (Item No. 11764), and etoposide (Item No. 12092) by 3.8-, 8.9-, and 2.7-fold, respectively, at 5 μ M but does not sensitize these cells to the non-MRP1 substrates cisplatin (Item No. 13119) or paclitaxel (Item No. 10461) at 5 μ M. Reversan (10 mg/kg) enhances vincristine- or etoposide-induced increases in survival in a model of neuroblastoma using *hMYCN* transgenic mice. It restores the alveolar fluid clearance rate and decreases bacterial colony-forming units (CFUs) in the injured lobe in ex vivo perfused human lungs injured with *E. coli* pneumonia.²

References

1. Burkhart, C.A., Watt, F., Murray, J., *et al.* Small-molecule multidrug resistance-associated protein 1 inhibitor reversan increases the therapeutic index of chemotherapy in mouse models of neuroblastoma. *Cancer Res.* **69**(16), 6573-6580 (2009).
2. He, H., Sugita, S., Hao, Q., *et al.* Potential role of extracellular vesicles in bacterial phagocytosis during *Escherichia coli* pneumonia in ex vivo perfused human lungs. *Intensive Care Med. Exp.* **14**(1), 56 (2026).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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