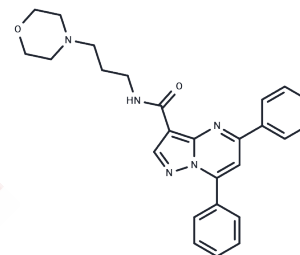


## Reversan

## Chemical Properties

CAS No. :	313397-13-6
Formula:	C <sub>26</sub> H <sub>27</sub> N <sub>5</sub> O <sub>2</sub>
Molecular Weight:	441.53
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Reversan(CBL4H10), a small molecule inhibitor that acts on multidrug resistance-associated protein 1 (MRP1) and P-glycoprotein (Pgp), has been found to improve the efficacy of chemotherapy for glioblastoma, with the advantages of being highly effective and non-toxic.
Targets(IC50)	Neurokinin receptor,MRP,P-gp

## Solubility Information

Solubility	DMSO: 10 mg/mL (22.65 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2649 mL	11.3243 mL	22.6485 mL
5 mM	0.453 mL	2.2649 mL	4.5297 mL
10 mM	0.2265 mL	1.1324 mL	2.2649 mL
50 mM	0.0453 mL	0.2265 mL	0.453 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

- Tivnan A, et al. Inhibition of multidrug resistance protein 1 (MRP1) improves chemotherapy drug response in primary and recurrent glioblastoma multiforme. *Front Neurosci.* 2015 Jun 16;9:218.
- Burkhart CA, et al. Small-molecule multidrug resistance-associated protein 1 inhibitor reversan increases the therapeutic index of chemotherapy in mouse models of neuroblastoma. *Cancer Res.* 2009 Aug 15;69(16):6573-80.
- Arias-Gómez A, et al. Synthesis of structural analogues of Reversan by ester aminolysis: an access to pyrazolo[1,5-a]pyrimidines from chalcones. *RSC Adv.* 2023 May 31;13(24):16377-16386.

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