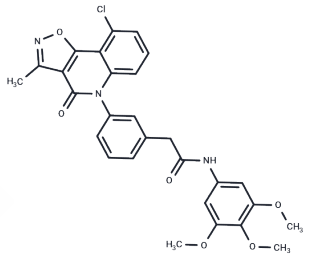
Data Sheet (Cat.No.T27954)

TargetMol

LY-402913

Chemical Properties



CAS No. : 334970-65-9

Formula: C28H24ClN3O6

Molecular Weight: 533.96

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	LY-402913 is a selective inhibitor of the multidrug resistance protein (MRP1).
Targets(IC50)	Others,MRP,P-gp
In vitro	LY-402913 inhibits MRP1 and reverses drug resistance to MRP1 substrates, such as doxorubicin, in HeLa-T5 cells (EC50=0.90 μM), while showing no inherent cytotoxicity. LY-402913 inhibits ATP-dependent, MRP1-mediated LTC4 uptake into membrane vesicles prepared from the MRP1-overexpressing HeLa-T5 cells (EC50=1.8 μM). LY-402913 also shows selectivity (22-fold) against the related transporter, P-glycoprotein, in HL60/Adr and HL60/Vinc cells[2].
In vivo	When dosed in combination with the oncolytic MRP1 substrate vincristine, LY-402913 delays the growth of MRP1-overexpressing tumors in vivo[2].

Solubility Information

Solubility	DMSO: 50 mg/mL (93.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8728 mL	9.364 mL	18.728 mL
5 mM	0.3746 mL	1.8728 mL	3.7456 mL
10 mM	0.1873 mL	0.9364 mL	1.8728 mL
50 mM	0.0375 mL	0.1873 mL	0.3746 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

Tawari NR, Bag S, Degani MS. Pharmacophore mapping of a series of pyrrolopyrimidines, indolopyrimidines and their congeners as multidrug-resistance-associated protein (MRP1) modulators. J Mol Model. 2008 Oct;14(10):911-21.

Norman BH, Gruber JM, Hollinshead SP, Wilson JW, Starling JJ, Law KL, Self TD, Tabas LB, Williams DC, Paul DC, Wagner MM, Dantzig AH. Tricyclic isoxazoles are novel inhibitors of the multidrug resistance protein (MRP1). Bioorg Med Chem Lett. 2002 Mar 25;12(6):883-6. PubMed PMID: 11958985.

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