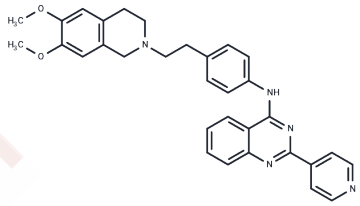
Data Sheet (Cat.No.T12341)

TargetMol

P-gp inhibitor 1

Chemical Properties



CAS No. : 2050747-49-2

Formula: C32H31N5O2

Molecular Weight: 517.62

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	P-gp inhibitor 1 inhibits reversing P-glycoprotein-mediated multidrug resistance with an EC50 of 57.9 nM (K562/A02 cells).
Targets(IC50)	P-gp
In vitro	In K562/A02 MDR cells, P-gp inhibitor 1 (0.1, 1, 5 μM, 1 h) boosts the potency of other MDR-related cytotoxic agents with different structures, increases the accumulation of DOX, blocks Pgp-mediated Rh123 efflux, and suppresses P-gp ATPase activity[1].

Solubility Information

Solubility	DMSO: 45 mg/mL (86.94 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9319 mL	9.6596 mL	19.3192 mL
5 mM	0.3864 mL	1.9319 mL	3.8638 mL
10 mM	0.1932 mL	0.966 mL	1.9319 mL
50 mM	0.0386 mL	0.1932 mL	0.3864 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

Qiu Q, et al. Design, Synthesis, and Pharmacological Characterization of N-(4-(2 (6,7-Dimethoxy-3,4-dihydroisoquinolin-2(1H)yl)ethyl)phenyl)quinazolin-4-amine Derivatives: Novel Inhibitors Reversing P-Glycoprotein-Mediated Multidrug Resistance. J Med Chem. 2017 Apr 27;60(8):3289-3302.

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