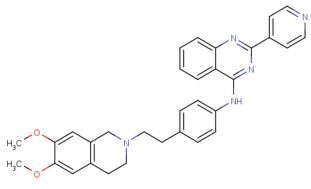
Data Sheet (Cat.No.T12341)

TargetMol
A DRUG SCREENING EXPERT

P-gp inhibitor 1

Chemical Properties



CAS No.:	2050747-49-2
Formula:	C32H31N5O2
Molecular Weight:	517.62
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	P-gp inhibitor 1 is an inhibitor reversing P-glycoprotein-mediated multidrug resistance.
Targets(IC_{50})	Others: None
In vitro	P-gp inhibitor 1 also boosts the potency of other MDR-related cytotoxic agents with different structures, increases accumulation of DOX, blocks Pgp-mediated Rh123 efflux, and suppresses P-gp ATPase activity in K562/A02 MDR cells (0.1, 1, 5 μM, 1 hour)[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.932 mL	9.66 mL	19.319 mL
5 mM	0.386 mL	1.932 mL	3.864 mL
10 mM	0.193 mL	0.966 mL	1.932 mL
50 mM	0.039 mL	0.193 mL	0.386 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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