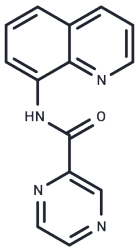
Data Sheet (Cat.No.T64374)

TargetMol

QN523

Chemical Properties



CAS No. : 878581-60-3

Formula: C14H10N4O

Molecular Weight: 250.26

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	QN523 represents a novel scaffold with drug-like properties, showing potent in vitro cytotoxicity in a panel of 12 cancer cell lines. QN523 shows significant in vivo efficacy in a pancreatic cancer xenograft model. Autophagy is a major mechanism of action.
Targets(IC50)	Apoptosis,Autophagy
In vitro	QN523 showed significant cytotoxicity with IC50 values ranging from 0.1 to 5.7 μM across 12 cell lines. QN523 at 0.5 μM and gemcitabine at 0.1 μM arrested MIA PaCa-2 cells in the S-phase following 24 and 48 h treatment[1].
In vivo	In NOD/SCID mice of MIA PaCa-2 xenografts, QN523 at 10 mg/kg (intraperitoneal administration) shows no significant delay in tumor growth from day 1 to day 9. QN523 at 20 mg/kg from day 10 and continued until day 44 delayed growth of the MIA PaCa-2 xenograft starting from day 17. On day 44 80% inhibition of tumor growth was observed. No symptoms of gross toxicity such as weakness, weight loss or lethargy were observed in the QN523 treatment group[1].

Solubility Information

Solubility	DMSO: 16.2 mg/mL (64.73 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9958 mL	19.9792 mL	39.9584 mL
5 mM	0.7992 mL	3.9958 mL	7.9917 mL
10 mM	0.3996 mL	1.9979 mL	3.9958 mL
50 mM	0.0799 mL	0.3996 mL	0.7992 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

Kuang Y, et al. Induction of Genes Implicated in Stress Response and Autophagy by a Novel Quinolin-8-yl-nicotinamide QN523 in Pancreatic Cancer. J Med Chem. 2022 Apr 28;65(8):6133-6156.