

QD-394

Chemical Properties

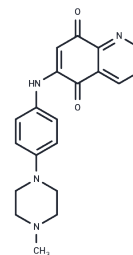
CAS No. : 2132411-21-1

Formula: C₁₉H₁₉N₅O₂

Molecular Weight: 349.39

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	QD-394 is an inducer of reactive oxygen species (ROS) production. It induces lipid peroxidation, increases in intracellular accumulation of reactive oxygen species (ROS), and decreases in the reduced glutathione (GSH) to oxidized GSH (GSSG) ratio in MIA PaCa-2 pancreatic cancer cells when used at concentrations ranging from 0.5 to 10 μ M. QD-394 is cytotoxic to MIA PaCa-2, PANC-1, and BxPC-3 cancer cells (IC ₅₀ s = 0.64, 0.34, and 0.9 μ M, respectively). QD-394 acts synergistically with napabucasin to reduce colony formation in MIA PaCa-2 cells.
Targets(IC50)	Others, Reactive Oxygen Species

Solubility Information

Solubility	Ethanol: 1 mg/ml, Sonication is recommended. DMSO: 5 mg/mL (14.31 mM), Sonication is recommended. DMSO:PBS (pH 7.2) (1:20): 0.04 mg/mL (0.11 mM), Sonication is recommended. PBS (pH 7.2): Slightly soluble DMF: 1 mg/ml, 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	2.8621 mL	14.3107 mL	28.6213 mL
5 mM	0.5724 mL	2.8621 mL	5.7243 mL
10 mM	0.2862 mL	1.4311 mL	2.8621 mL
50 mM	0.0572 mL	0.2862 mL	0.5724 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

Hu, S., Sechi, M., Singh, P.K., et al. A novel redox modulator induces a GPX4-mediated cell death that is dependent on iron and reactive oxygen species. *J. Med. Chem.* 63(17):9838-9855(2020)

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