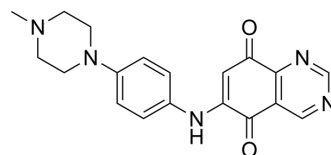


QD394

Cat. No.:	HY-139369
CAS No.:	2132411-21-1
Molecular Formula:	C ₁₉ H ₁₉ N ₅ O ₂
Molecular Weight:	349.39
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (14.31 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

QD394 is a reactive oxygen species (ROS) inducer that can induce lipid peroxidation, increase intracellular ROS accumulation, inhibit STAT3 phosphorylation, and induce ferroptosis^[1].

In Vitro

QD394 (0-10 μM, 24 h) is cytotoxic with the IC₅₀ values of 0.64, 0.34 and 0.9 μM for MIA PaCa-2, PANC-1 and BxPC-3 cell lines, respectively. And QD394 can inhibit the phosphorylation of STAT3 in cells and increase the phosphorylation of H2AX^[1]. QD394(1-10 μM, 4 h) mediates cell death by increasing cellular ROS levels and decreases GSH/GSSG ratio in MIA PaCa-2 cells; also induces iron-dependent and GPX4-mediated ferroptosis^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Shuai Hu, et al. A Novel Redox Modulator Induces a GPX4-Mediated Cell Death That Is Dependent on Iron and Reactive Oxygen Species. J Med Chem. 2020 Sep 10;63(17):9838-9855.

Caution: Product has not been fully validated for medical applications. For research use only.

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