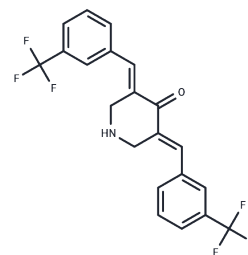


ROS-generating agent 1

Chemical Properties

CAS No. :	2369030-41-9
Formula:	C ₂₁ H ₁₅ F ₆ NO
Molecular Weight:	411.34
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	Ros-generating agent 1 has anticancer activity and generates ROS by covalently modifying Sec-498 residues of TrxR. ROS-generating agent 1 reduces intracellular TrxR protein levels and promotes ROS-dependent apoptosis and ferroptosis in NCI-H460
Targets(IC50)	Apoptosis, Ferroptosis, Reactive Oxygen Species, ROS, ROS Kinase

Solubility Information

Solubility	DMSO: 45 mg/mL (109.4 mM), 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	2.4311 mL	12.1554 mL	24.3108 mL
5 mM	0.4862 mL	2.4311 mL	4.8622 mL
10 mM	0.2431 mL	1.2155 mL	2.4311 mL
50 mM	0.0486 mL	0.2431 mL	0.4862 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

Liu X, et al. Tumor killing by a dietary curcumin mono-carbonyl analog that works as a selective ROS generator via TrxR inhibition. Eur J Med Chem. 2023 Mar 15;250:115191.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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