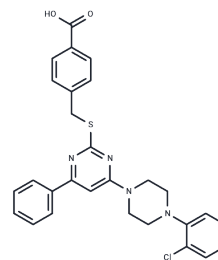


J14

Chemical Properties

CAS No. :	1043854-13-2
Formula:	C ₂₈ H ₂₅ ClN ₄ O ₂ S
Molecular Weight:	517.04
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	J-14 is an inhibitor of reversible sulfiredoxin (IC ₅₀ : 8.1 μM). J14 induces oxidative stress (intracellular ROS accumulation) by inhibiting sulfiredoxin, leading to cytotoxicity and cancer cell death
Targets(IC ₅₀)	Reactive Oxygen Species, ROS

Solubility Information

Solubility	DMSO: 125 mg/mL (241.76 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (19.34 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (19.34 mM), Suspension. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9341 mL	9.6704 mL	19.3409 mL
5 mM	0.3868 mL	1.9341 mL	3.8682 mL
10 mM	0.1934 mL	0.967 mL	1.9341 mL
50 mM	0.0387 mL	0.1934 mL	0.3868 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

Kim H, et al. Sulfiredoxin inhibitor induces preferential death of cancer cells through reactive oxygen species-mediated mitochondrial damage. Free Radic Biol Med. 2016 Feb;91:264-74.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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