Data Sheet (Cat.No.T61647)



TrxR-IN-5

Chemical Properties

CAS No.:

Formula: C26H22O3

Molecular Weight: 382.45

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	TrxR-IN-5 (compound 4f) is an efficacious inhibitor of TrxR (thioredoxin reductase) with an IC50 of 0.16 µM. By elevating the levels of reactive oxygen species (ROS), TrxR-IN-5 fosters robust antiproliferative impacts. Additionally, TrxR-IN-5 demonstrates pronounced effects against cancer proliferation and metastasis [1].
In vivo	TrxR-IN-5 (compound 4f), administered intraperitoneally (IP) at doses ranging from 0 to 25 mg/kg once to BALB/c nude mice with MDA-MB-231 xenografts, demonstrates significant inhibitory effects on solid breast cancer tumors in vivo [1].

Preparing Stock Solutions

© ^	1mg	5mg	10mg	
1 mM	2.6147 mL	13.0736 mL	26.1472 mL	
5 mM	0.5229 mL	2.6147 mL	5.2294 mL	
10 mM	0.2615 mL	1.3074 mL	2.6147 mL	
50 mM	0.0523 mL	0.2615 mL	0.5229 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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