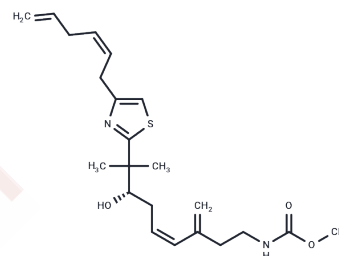


Mycothiazole

Chemical Properties

CAS No. :	114582-75-1
Formula:	C ₂₂ H ₃₂ N ₂ O ₃ S
Molecular Weight:	404.57
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	Mycothiazole is an inhibitor of mitochondrial electron transport chain (ETC) complex I. It exhibits cytotoxicity in cancer cells Huh7 (IC ₅₀ of 55.8 μM), U87, and MCF7. In Huh7 cells, Mycothiazole induces apoptosis (apoptosis). Additionally, Mycothiazole extends the lifespan of <i>C. elegans</i> by modulating transcription factors ATFS-1 and HSF1, which are associated with the unfolded protein response (UPR) and heat shock response (HSR).
Targets(IC ₅₀)	Mitochondrial Metabolism

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4718 mL	12.3588 mL	24.7176 mL
5 mM	0.4944 mL	2.4718 mL	4.9435 mL
10 mM	0.2472 mL	1.2359 mL	2.4718 mL
50 mM	0.0494 mL	0.2472 mL	0.4944 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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