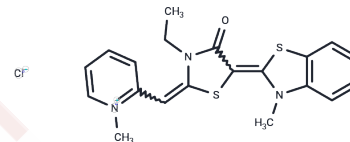


YM-1

Chemical Properties

CAS No. :	409086-68-6
Formula:	C ₂₀ H ₂₀ ClN ₃ O ₂ S
Molecular Weight:	417.98
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	YM-1 is an HSP70 modulator and an allosteric inhibitor. It promotes the degradation of client proteins (e.g., Akt, Raf-1), used for cancer and antiviral research.
Targets(IC50)	HSP
In vitro	YM-1 (IC ₅₀ = 8.2 μM) is an Hsp70 activator that induces growth arrest in HeLa cells by modulating p53, p21, and FoxM1 [1].
In vivo	YM-1 (1 mM, 7 days) activates the Hsp70 pathway to rescue eye degeneration in Drosophila polyQ models [1].

Solubility Information

Solubility	H ₂ O: 40 mg/mL (95.7 mM), Sonication is recommended. DMSO: 24 mg/mL (57.42 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	2.3925 mL	11.9623 mL	23.9246 mL
5 mM	0.4785 mL	2.3925 mL	4.7849 mL
10 mM	0.2392 mL	1.1962 mL	2.3925 mL
50 mM	0.0478 mL	0.2392 mL	0.4785 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

Khondoker Md Zulfiker Rahman, et al. Effect of an Inhibitor of HSP70, YM-1, on Hkeshi Knockout Cells. Thermal Medicine. 2017, 33(4):129-134.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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