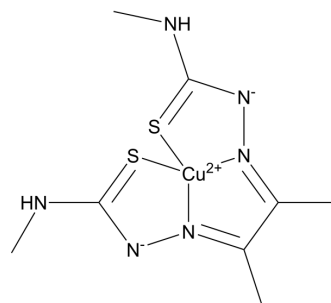


CuATSM

Cat. No.:	HY-139827
CAS No.:	68341-09-3
Molecular Formula:	C ₈ H ₁₄ CuN ₆ S ₂
Molecular Weight:	321.91
Target:	Ferroptosis
Pathway:	Apoptosis
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 2 mg/mL (6.21 mM); ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.1065 mL	15.5323 mL	31.0646 mL
	5 mM	0.6213 mL	3.1065 mL	6.2129 mL
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

CuATSM is a highly potent radical-trapping antioxidant (RTA) and inhibitor of (phospho)lipid peroxidation, thereby accounting for its (their) ability to inhibit ferroptosis.

REFERENCES

[1]. Zilka O, et al. Radical-Trapping Antioxidant Activity of Copper and Nickel Bis(Thiosemicarbazone) Complexes Underlies Their Potency as Inhibitors of Ferroptotic Cell Death. *J Am Chem Soc.* 2021 Nov 17;143(45):19043-19057.

Caution: Product has not been fully validated for medical applications. For research use only.

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