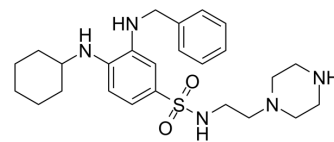


UAMC-3203

Cat. No.:	HY-112909	
CAS No.:	2271358-64-4	
Molecular Formula:	C ₂₅ H ₃₇ N ₅ O ₂ S	
Molecular Weight:	471.66	
Target:	Ferroptosis	
Pathway:	Apoptosis	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (530.04 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.1202 mL	10.6009 mL	21.2017 mL
		5 mM		0.4240 mL	2.1202 mL	4.2403 mL
10 mM		0.2120 mL	1.0601 mL	2.1202 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.41 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.41 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.41 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	UAMC-3203 is a potent and selective Ferroptosis inhibitor with an IC ₅₀ of 12 nM.
IC ₅₀ & Target	IC ₅₀ : 12 nM (Ferroptosis) ^[1]
In Vivo	No toxicity is observed in mice after repeated injections of UAMC-3203 (20 μmol/kg; injected intraperitoneally; daily, over a period of 4 weeks) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Wild type mice derived from a Gpx4 fl/fl breeding ^[1]
Dosage:	20 µmol/kg
Administration:	Injected intraperitoneally; daily, over a period of 4 weeks
Result:	No toxicity was observed.

CUSTOMER VALIDATION

- Acta Neuropathol Commun. 2023 Jul 25;11(1):121.
- Cell Biol Toxicol. 2021 Aug 17.
- Research Square Print. October 26th, 2022.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Devisscher L, et al. Discovery of Novel, Drug-Like Ferroptosis Inhibitors with in Vivo Efficacy. J Med Chem. 2018 Nov 21;61(22):10126-10140.

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

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