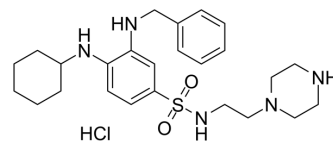


UAMC-3203 hydrochloride

Cat. No.:	HY-112909A
CAS No.:	2271358-65-5
Molecular Formula:	C ₂₅ H ₃₈ ClN ₅ O ₂ S
Molecular Weight:	508.12
Target:	Ferroptosis
Pathway:	Apoptosis
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (98.40 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	1.9680 mL	9.8402 mL	19.6804 mL
		5 mM	0.3936 mL	1.9680 mL	3.9361 mL
10 mM		0.1968 mL	0.9840 mL	1.9680 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.09 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.09 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.09 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	UAMC-3203 hydrochloride is a potent and selective Ferroptosis inhibitor with an IC ₅₀ of 12 nM ^[1] .
IC₅₀ & 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.

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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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