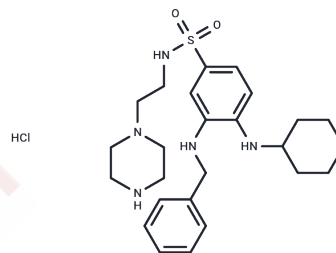


UAMC-3203 hydrochloride

Chemical Properties

CAS No. :	2271358-65-5
Formula:	C ₂₅ H ₃₈ ClN ₅ O ₂ S
Molecular Weight:	508.12
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	UAMC-3203 hydrochloride is a potent and selective ferroptosis inhibitor with an IC ₅₀ of 12 nM.
Targets(IC ₅₀)	Ferroptosis

Solubility Information

Solubility	DMSO: 50 mg/mL (98.4 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.94 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.968 mL	9.8402 mL	19.6804 mL
5 mM	0.3936 mL	1.968 mL	3.9361 mL
10 mM	0.1968 mL	0.984 mL	1.968 mL
50 mM	0.0394 mL	0.1968 mL	0.3936 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

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.

Yan B, Ai Y, Sun Q, et al. Membrane Damage during Ferroptosis Is Caused by Oxidation of Phospholipids Catalyzed by the Oxidoreductases POR and CYB5R1. Molecular Cell. 2020

Yan B, Ai Y, Sun Q, et al. Membrane Damage during Ferroptosis Is Caused by Oxidation of Phospholipids Catalyzed by the Oxidoreductases POR and CYB5R1[J]. Molecular Cell. 2020

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