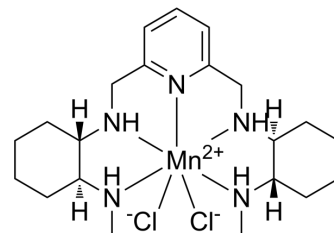


Avasopasem manganese

Cat. No.:	HY-109110
CAS No.:	435327-40-5
Molecular Formula:	C ₂₁ H ₃₅ Cl ₂ MnN ₅
Molecular Weight:	483.38
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 230 mg/mL (475.82 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.0688 mL	10.3438 mL	20.6877 mL
		5 mM	0.4138 mL	2.0688 mL	4.1375 mL
10 mM		0.2069 mL	1.0344 mL	2.0688 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: ≥ 2.5 mg/mL (5.17 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.17 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Avasopasem manganese (GC4419; M-40419) is a potent superoxide dismutase mimetic that rapidly and specifically converts O ₂ ^{•-} to hydrogen peroxide (H ₂ O ₂), arresting the initiation of this cascade. Avasopasem manganese can be used for the research of severe oral mucositis (SOM) and cancer ^[1] .
In Vivo	Avasopasem manganese is an agent intended to interrupt severe oral mucositis pathogenesis, to reduce the duration, incidence, and severity of radiation-induced oral mucositis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Anderson CM, et al. Phase IIb, Randomized, Double-Blind Trial of GC4419 Versus Placebo to Reduce Severe Oral Mucositis Due to Concurrent Radiotherapy and Cisplatin For Head and Neck Cancer [published correction appears in J Clin Oncol. 2020 Jan 20;38(3):288]. J Clin Oncol. 2019;37(34):3256-3265.

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

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