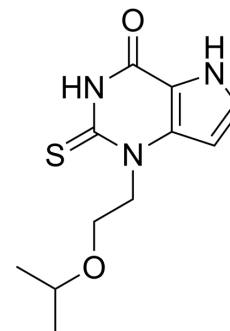


Verdiperstat

Cat. No.:	HY-17646		
CAS No.:	890655-80-8		
Molecular Formula:	C ₁₁ H ₁₅ N ₃ O ₂ S		
Molecular Weight:	253.32		
Target:	Glutathione Peroxidase		
Pathway:	Apoptosis; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (394.76 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.9476 mL	19.7379 mL	39.4758 mL
		5 mM	0.7895 mL	3.9476 mL	7.8952 mL
10 mM		0.3948 mL	1.9738 mL	3.9476 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: ≥ 2.5 mg/mL (9.87 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.87 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.87 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Verdiperstat (AZD3241) is a selective, irreversible and orally active myeloperoxidase (MPO) inhibitor, with an IC ₅₀ of 630 nM, and can be used in the research of neurodegenerative brain disorders.
IC₅₀ & Target	IC ₅₀ : 630 nM (Myeloperoxidase) ^[1]
In Vitro	Verdiperstat (AZD3241) is a myeloperoxidase (MPO) inhibitor, with an IC ₅₀ of 630 nM, and is used in the research of neurodegenerative brain disorders ^[1] . Verdiperstat (AZD3241) selectively and irreversibly inhibits myeloperoxidase, and may

involves reduction of oxidative stress leading to reduction of sustained neuroinflammation^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Immunother Cancer. 2023 Feb;11(2):e005837.
- Cancer Immunol Immunother. 2024 Feb 17;73(3):57.
- bioRxiv. 2020 Nov 24;2020.11.24.393405.

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REFERENCES

[1]. Johnström P, et al. Development of rapid multistep carbon-11 radiosynthesis of the myeloperoxidase inhibitor AZD3241 to assess brain exposure by PET microdosing. Nucl Med Biol. 2015 Jun;42(6):555-60.

[2]. Jucaite A, et al. Effect of the myeloperoxidase inhibitor AZD3241 on microglia: a PET study in Parkinson's disease. Brain. 2015 Sep;138(Pt 9):2687-700.

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

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