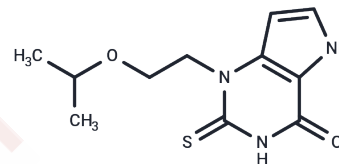


Verdiperstat

Chemical Properties

CAS No. :	890655-80-8
Formula:	C ₁₁ H ₁₅ N ₃ O ₂ S
Molecular Weight:	253.32
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Verdiperstat (AZD 3241) is a selective, irreversible and orally active myeloperoxidase inhibitor, with an IC ₅₀ of 630 nM, and can be used in the research of neurodegenerative brain disorders.
Targets(IC ₅₀)	Glutathione Peroxidase
In vitro	Verdiperstat (AZD3241) functions as a myeloperoxidase (MPO) inhibitor, demonstrating potency with an IC ₅₀ value of 630 nM. It is primarily utilized in the study of neurodegenerative brain disorders[1]. By selectively and irreversibly targeting MPO, Verdiperstat (AZD3241) potentially reduces oxidative stress, consequently diminishing prolonged neuroinflammation.

Solubility Information

Solubility	DMSO: 150 mg/mL (592.14 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: 4 mg/mL (15.79 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	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
50 mM	0.079 mL	0.3948 mL	0.7895 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

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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