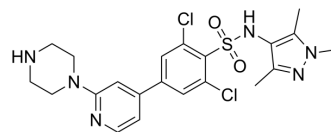


DDD85646



Product Data Sheet

Cat. No.:	HY-103056		
CAS No.:	1215010-55-1		
Molecular Formula:	C ₂₁ H ₂₄ Cl ₂ N ₆ O ₂ S		
Molecular Weight:	495.43		
Target:	DNA/RNA Synthesis; Parasite		
Pathway:	Cell Cycle/DNA Damage; Anti-infection		
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 : 100 mg/mL (201.84 mM; Need ultrasonic)					
		Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
	Preparing Stock Solutions	1 mM		2.0184 mL	10.0922 mL	20.1845 mL
		5 mM		0.4037 mL	2.0184 mL	4.0369 mL
	10 mM		0.2018 mL	1.0092 mL	2.0184 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 (5.05 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.05 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	DDD85646 is a potent inhibitor of trypanosoma brucei N-myristoyltransferase (TbNMT IC ₅₀ =2 nm; hNMTIC ₅₀ =4 nm). The enzyme N-myristoyltransferase (NMT) is a potential agent target for human African trypanosomiasis ^[1] .
IC₅₀ & Target	Trypanosoma

REFERENCES

[1]. Spinks D, et al. Development of Small-Molecule Trypanosoma brucei N-Myristoyltransferase Inhibitors: Discovery and Optimisation of a Novel Binding Mode.

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