DNDI-6174

Cat. No.: HY-162066

CAS No.: 2868298-43-3

Molecular Formula: $C_{16}H_{13}N_5O_2$

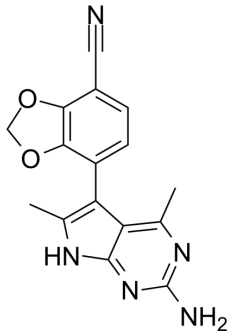
Molecular Weight: 307.31

Target: Parasite

Pathway: 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 (325.40 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.2540 mL	16.2702 mL	32.5404 mL
	5 mM	0.6508 mL	3.2540 mL	6.5081 mL
	10 mM	0.3254 mL	1.6270 mL	3.2540 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 (8.14 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (8.14 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (8.14 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DNDI-6174 is a cytochrome bc1 complex inhibitor with potent in vitro activity against a variety of Leishmania species. DNDI-6174 can reduce parasite burden in animal models of infection[1].

REFERENCES

[1]. Stéphanie Braillard, et al. DNDI-6174 is a preclinical candidate for visceral leishmaniasis that targets the cytochrome bc1. Sci Transl Med. 2023 Dec 13;15(726):eadh9902.

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