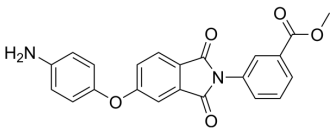
LabMol-319

Cat. No.:	HY-150234
CAS No.:	381188-63-2
Molecular Formula:	$C_{22}H_{16}N_2O_5$
Molecular Weight:	388.37
Target:	Virus Protease; Flavivirus
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (257.49 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5749 mL	12.8743 mL	25.7486 mL
	5 mM	0.5150 mL	2.5749 mL	5.1497 mL
	10 mM	0.2575 mL	1.2874 mL	2.5749 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 (6.44 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

LabMol-319 is a potent zika virus (ZIKV) NS5 RdRp inhibitor with an IC_{50} of 1.6 μM. LabMol-319 is an antiviral agent[1].

In Vitro

LabMol-319 shows 98% inhibition on NS5 RdRp activity at concentration of 20 μM[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Melina Mottin, et al. Discovery of New Zika Protease and Polymerase Inhibitors through the Open Science Collaboration Project OpenZika. J Chem Inf Model. 2022 Dec 26;62(24):6825-6843.

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

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