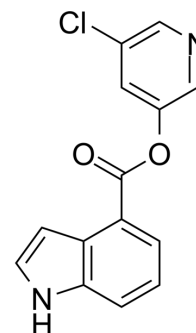


## GRL-0496

Cat. No.:	HY-137954		
CAS No.:	1087243-14-8		
Molecular Formula:	C <sub>14</sub> H <sub>9</sub> ClN <sub>2</sub> O <sub>2</sub>		
Molecular Weight:	272.69		
Target:	SARS-CoV		
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 (366.72 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		3.6672 mL	18.3358 mL	36.6717 mL
		5 mM		0.7334 mL	3.6672 mL	7.3343 mL
10 mM			0.3667 mL	1.8336 mL	3.6672 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (9.17 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.17 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (9.17 mM); Clear solution</li> </ol>					

### BIOLOGICAL ACTIVITY

Description	GRL-0496 is a potent chloropyridyl ester-derived SARS-CoV 3CLpro inhibitor, with an IC <sub>50</sub> of 30 nM in both enzyme inhibitory and antiviral assays. GRL-0496 shows SARS-CoV antiviral activity, with an EC <sub>50</sub> of 6.9 μM <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 30 nM (SARS-CoV 3CLpro) <sup>[1]</sup>
In Vitro	GRL-0496 shows the best SARS-CoV antiviral activity, with an EC <sub>50</sub> of 6.9 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[1]. Ghosh AK, et, al. Design, synthesis and antiviral efficacy of a series of potent chloropyridyl ester-derived SARS-CoV 3CLpro inhibitors. Bioorg Med Chem Lett. 2008 Oct 15;18(20):5684-8.

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

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