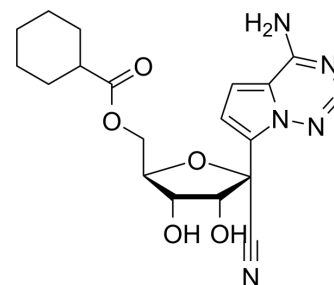


## SHEN26

<b>Cat. No.:</b>	HY-155488		
<b>CAS No.:</b>	2691076-98-7		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>23</sub> N <sub>5</sub> O <sub>5</sub>		
<b>Molecular Weight:</b>	401.42		
<b>Target:</b>	SARS-CoV		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: 5 mg/mL (12.46 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 5 mg/mL (12.46 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: 5 mg/mL (12.46 mM); Clear solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

SHEN26 (ATY014) is a potent and orally active RdRp inhibitor, with an IC<sub>50</sub> for SARS-CoV-2 is 1.36 μM. SHEN26 is a 5'-cyclohexanecarboxylate derivative of GS-441524 (HY-103586). SHEN26 inhibits viral nucleic acid synthesis to achieve antiviral effects. SHEN26 can be used for the research of coronavirus disease 2019 (COVID-19)<sup>[1][2]</sup>.

#### In Vitro

IC<sub>50</sub> of SHEN26 (ATY014) against variants of beta and delta are 1.12 μM and 0.35 μM<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Chen Q, et al. Optimized Kilogram-Scale Synthesis and Impurity Identification of SHEN26 (ATV014) for Treating COVID-19. *Organic Process Research & Development*. 2023 Nov 20.

[2]. Ji X, et al. Research and development of Chinese anti-COVID-19 drugs. *Acta Pharm Sin B*. 2022 Dec;12(12):4271-4286.

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

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