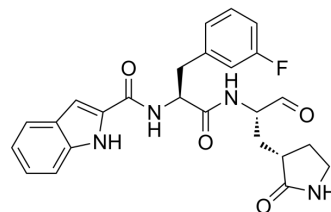


SARS-CoV MPro-IN-1

Cat. No.:	HY-136606
CAS No.:	2413716-71-7
Molecular Formula:	C ₂₅ H ₂₅ FN ₄ O ₄
Molecular Weight:	464.49
Target:	SARS-CoV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

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 (5.38 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.38 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.38 mM); Clear solution
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BIOLOGICAL ACTIVITY

Description	SARS-CoV MPro-IN-1 is a SARS-CoV-2 3CLpro covalent inhibitor, with an IC ₅₀ of 40 nM. SARS-CoV MPro-IN-1 shows good anti-SARS-CoV-2-infection activity in cell culture with an EC ₅₀ of 0.33 μM. SARS-CoV MPro-IN-1 has the potential for COVID-19 research ^[1] .
In Vivo	SARS-CoV MPro-IN-1 (compound 11b) (5 mg/kg; intravenous drip administration) shows the t _{1/2} is <1.65 hours and the clearance rate is 20.6 mL/min/mg ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Dai W, et al. Structure-Based Design, Synthesis and Biological Evaluation of Peptidomimetic Aldehydes as a Novel Series of Antiviral Drug Candidates Targeting the SARS-CoV-2 Main Protease. bioRxiv; 2020.

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

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