Molnupiravir

Cat. No.:	HY-135853		
CAS No.:	2492423-29	-5	
Molecular Formula:	C ₁₃ H ₁₉ N ₃ O ₇		
Molecular Weight:	329.31		
Target:	Influenza Vi	rus; SARS	S-CoV
Pathway:	Anti-infectio	on	
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	1 mM	3.0367 mL	15.1833 mL	30.3665 mL	
		5 mM	0.6073 mL	3.0367 mL	6.0733 mL	
		10 mM	0.3037 mL	1.5183 mL	3.0367 mL	
	Please refer to the so	olubility information to select the app	propriate solvent.			
n Vivo		1. Add each solvent one by one: 10% PEG400 >> 2.5% Ethoxylated hydrogenated castor oil >> 87.5% water Solubility: 12.05 mg/mL (36.59 mM); Clear solution; Need ultrasonic				
		2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.59 mM); Clear solution				
		3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.59 mM); Clear solution				
		one by one: 10% DMSO >> 90% cor ng/mL (7.59 mM); Clear solution	n oil			

Description
In Vivo

Product Data Sheet

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and disease^[1].

Molnupiravir (7 mg/kg; p.o.; twice daily for 3.5 days) significantly reduces shed virus load and duration of fever^[2]. Μ

MCE has not independently	confirmed the accuracy	of these methods. Th	ney are for reference only.
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Animal Model:	C57BL/6 mice (intranasal infection with SARS-CoV) ^[1]
Dosage:	50, 150, 500 mg/kg
Administration:	Oral; every 12 hours for 3 days
Result:	Body weight loss is significantly diminished or prevented.
Animal Model:	Ca/09-infected female ferrets ^[1]
Dosage:	7 mg/kg
Administration:	Oral; twice daily for 3.5 days
Result:	Shed virus load and duration of fever were significantly reduced.

CUSTOMER VALIDATION

- N Engl J Med. 2023 Jan 5;388(1):89-91.
- Nature. 2022 Apr;604(7904):134-140.
- Cell. 2022 Nov 10;185(23):4347-4360.e17.
- Nat Microbiol. 2022 Jun 15.
- Nat Commun. 2023 Jul 4;14(1):3952.

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REFERENCES

[1]. Toots M, et al. Characterization of orally efficacious influenza drug with high resistance barrier in ferrets and human airway epithelia. Sci Transl Med. 2019 Oct 23;11(515). pii: eaax5866.

[2]. Sheahan TP, et al. An orally bioavailable broad-spectrum antiviral inhibits SARS-CoV-2 in human airway epithelial cell cultures and multiple coronaviruses in mice. Sci Transl Med. 2020 Apr 6. pii: eabb5883.

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

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