



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

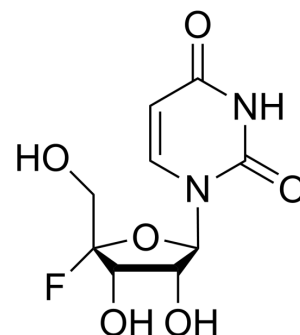
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

EIDD-2749

Cat. No.:	HY-146246		
CAS No.:	1613589-24-4		
Molecular Formula:	C ₉ H ₁₁ FN ₂ O ₆		
Molecular Weight:	262.19		
Target:	RSV; SARS-CoV; HCV		
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

H₂O : 62.5 mg/mL (238.38 mM; Need ultrasonic)
DMSO : 25 mg/mL (95.35 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.8140 mL	19.0701 mL	38.1403 mL
	5 mM		0.7628 mL	3.8140 mL	7.6281 mL
	10 mM		0.3814 mL	1.9070 mL	3.8140 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 25 mg/mL (95.35 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (9.54 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (9.54 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

EIDD-2749 (4'-Fluorouridine) is an orally active RdRp inhibitor. EIDD-2749 effectively blocks the replication of RSV and SARS-CoV-2. EIDD-2749 also exhibits activity against HCV and lymphocytic choriomeningitis virus (LCMV). EIDD-2749 is a promising oral therapeutic candidate for COVID-19 and is also suitable for research on other RNA viruses^{[1][2][3]}.

IC₅₀ & Target

RdRp, RSV, SARS-CoV-2, HCV, COVID-19, LCMV^{[1][2][3]}.

In Vitro	<p>EIDD-2749 induces a delayed stalling of phosphodiester bond formation by RSV and SARS-CoV-2 RdRP^[1].</p> <p>EIDD-2749 is rapidly anabolizes, metabolically stable, and potently antiviral in disease-relevant well-differentiated HAE cultures^[1].</p> <p>EIDD-2749 shows a ≥ 17-fold increase in anti-RSV potency relative to that on HEp-2 cells; however, the low cytotoxicity levels remains unchanged (CC_{50} 169 mM), resulting in a high SI ($SI = EC_{50}/CC_{50}$) of ≥ 1877^[1].</p> <p>EIDD-2749 inhibits SARS-CoV-2 with an EC_{50} value of 0.2-0.6 M^[2].</p> <p>EIDD-2749 has an EC_{50} of 1.86 μM in the Vero E6 cell line, cytotoxicity with a CC_{50} of 380 μM, and stability in human plasma^[3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>								
In Vivo	<p>EIDD-2749 (0.2, 1, 5 mg/kg; p.o.; single daily for 4 days) shows good orally efficacious in RSV infection mice model in a dose-dependent manner^[1].</p> <p>EIDD-2749 shows high efficacious to SARS-CoV-2 infection and is effective with a single daily dose versus molnupiravir administered twice daily in vivo^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1" data-bbox="347 621 1516 856"> <tr> <td>Animal Model:</td><td>Balb/cJ mice (RSV infection model)^[1].</td></tr> <tr> <td>Dosage:</td><td>0.2, 1, 5 mg/kg</td></tr> <tr> <td>Administration:</td><td>Oral administration; single daily for 4 days</td></tr> <tr> <td>Result:</td><td>Resulted in a statistically significant reduction in lung virus load.</td></tr> </table>	Animal Model:	Balb/cJ mice (RSV infection model) ^[1] .	Dosage:	0.2, 1, 5 mg/kg	Administration:	Oral administration; single daily for 4 days	Result:	Resulted in a statistically significant reduction in lung virus load.
Animal Model:	Balb/cJ mice (RSV infection model) ^[1] .								
Dosage:	0.2, 1, 5 mg/kg								
Administration:	Oral administration; single daily for 4 days								
Result:	Resulted in a statistically significant reduction in lung virus load.								

REFERENCES

- [1]. Sourimant J, et al. 4'-Fluorouridine is an oral antiviral that blocks respiratory syncytial virus and SARS-CoV-2 replication. Science. 2022 Jan 14;375(6577):161-167.
- [2]. Abas AH, et al. 4'-fluorouridine and its derivatives as potential COVID-19 oral drugs: a review [version 1; peer review: 1 approved with reservations, 1 not approved]. F1000Research 2022, 11:410.
- [3]. George R. Painter, et al. 4'-halogen containing nucleotide and nucleoside therapeutic compositions and uses related thereto. Patent WO2019173602A1.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA