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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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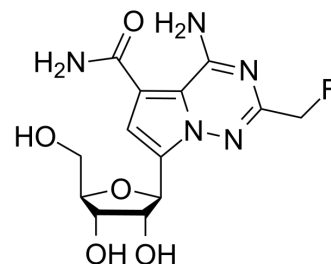
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nsp12-IN-1

Cat. No.:	HY-158322
Molecular Formula:	C ₁₃ H ₁₆ FN ₅ O ₅
Molecular Weight:	341.3
Target:	SARS-CoV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Nsp12-IN-1 is a nucleoside analogue. Nsp12-IN-1 can block the synthesis of viral RNA and inhibit viral replication. Nsp12-IN-1 can be used in the study of pan-coronavirus ^[1] .							
In Vitro	Nsp12-IN-1 has a high selectivity index and is less toxic to cells at effective antiviral concentrations, showing antiviral activity against SARS-CoV-2 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.							
In Vivo	Nsp12-IN-1 (2 mg/kg, i.v.; 30mg/kg p.o.; 24h) improves oral bioavailability, but the absolute bioavailability of these compounds remains low in female Balb-c mice ^[1] . Pharmacokinetic Analysis in female Balb-c mice ^[1]							
	Dosed compound	Route	Dose (mg/kg)	AUC _{last} (ng•h/mL)	T _{1/2} (h)	T _{max} (h)	C _{max} (ng/mL)	F (%)
	10n	i.v.	2	118	1.2	0.50	55	/
	10n	p.o.	30	171	4.3	2.0	49	9.6
	12a	p.o.	30	504	1.5	1.0	190	28.4
	12b	p.o.	30	847	3.4	0.67	301	47.7
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.							

REFERENCES

[1]. Mesaros E F, Dugan B J, Gao M, et al. Discovery of C-Linked Nucleoside Analogues with Antiviral Activity against SARS-CoV-2[J]. ACS Infectious Diseases, 2024.

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

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