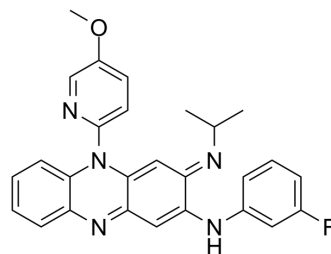


Antiviral agent 15

Cat. No.:	HY-144623
Molecular Formula:	C ₂₇ H ₂₄ FN ₅ O
Molecular Weight:	453.51
Target:	SARS-CoV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antiviral agent 15 (Compound 15f) is a Clofazimine derivative with antiviral effects. Antiviral agent 15 inhibits both rabies virus and pseudo-typed SARS-CoV-2 with EC ₅₀ values of 1.45 μM and 14.6 μM, respectively ^[1] .
In Vitro	Antiviral agent 15 (Compound 15f) affects the rabies and SARS-CoV-2 proliferation by targeting G or S protein to block the viral membrane fusion, as well as binding to L protein or nsp13 to inhibit viral biosynthesis, respectively, and thus synergistically exerted antiviral effect ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	In Kunming mice, Antiviral agent 15 (Compound 15f) is given orally in a single-dosing experiment at 0 mg/kg, 200 mg/kg, 400 mg/kg, 600 mg/kg and 800 mg/kg, respectively. The mice are closely monitored for 7 days, and all the surviving mice had glossy hair, fleshy body and good appetite ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Xintong Zhang, et al. Clofazimine derivatives as potent broad-spectrum antiviral agents with dual-target mechanism. *Eur J Med Chem.* 2022 Apr 15;234:114209.

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

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