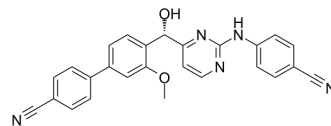


HIV-1 inhibitor-24

Cat. No.:	HY-146019
CAS No.:	2475658-75-2
Molecular Formula:	C ₂₆ H ₁₉ N ₅ O ₂
Molecular Weight:	433.46
Target:	HIV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HIV-1 inhibitor-24 (compound S-12a) is a highly potent HIV-1 reverse transcriptase, with an IC ₅₀ value of 9.5 nM. HIV-1 inhibitor-24 has high antiretroviral activity against WT HIV-1 with an EC ₅₀ of 1.6 nM, and exhibits relatively low cytotoxicity with a CC ₅₀ of 9.07 μM in MT-4 cells. HIV-1 inhibitor-24 is well tolerated at a dose of 2 g/kg in mice and has a significant cardiovascular safety ^[1] .									
IC₅₀ & Target	HIV-1 (WT) 1.6 nM (EC50)									
In Vivo	<p>HIV-1 inhibitor-24 (2 g/kg; IG; single dosage) is well tolerated at a dose of 2 g/kg in mice and has a significant cardiovascular safety^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Mice^[1]</td> </tr> <tr> <td>Dosage:</td> <td>2 g/kg</td> </tr> <tr> <td>Administration:</td> <td>IG; single dosage</td> </tr> <tr> <td>Result:</td> <td>Exhibited well tolerance at a dose of 2 g/kg in mice and a significant cardiovascular safety.</td> </tr> </table>		Animal Model:	Mice ^[1]	Dosage:	2 g/kg	Administration:	IG; single dosage	Result:	Exhibited well tolerance at a dose of 2 g/kg in mice and a significant cardiovascular safety.
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Dosage:	2 g/kg									
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Result:	Exhibited well tolerance at a dose of 2 g/kg in mice and a significant cardiovascular safety.									

REFERENCES

[1]. Chen X, et al. Bioisosterism-based design and enantiomeric profiling of chiral hydroxyl-substituted biphenyl-diarylpyrimidine nonnucleoside HIV-1 reverse transcriptase inhibitors. *Eur J Med Chem.* 2020;202:112549.

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

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