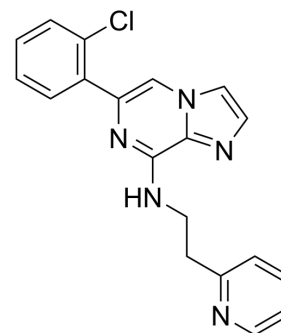


TH6342

Cat. No.:	HY-161296
Molecular Formula:	C ₁₉ H ₁₆ ClN ₅
Molecular Weight:	349.82
Target:	Bacterial; HIV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TH6342 is a SAMHD1 modulator that binds to pretetrameric SAMHD1 and prevents its oligomerization and allosteric activation. SAMHD1 is a dNTP triphosphohydrolase and an HIV-1 restriction factor. SAMHD1 can limit the replication of retroviruses and DNA viruses and has antiviral effects. The inhibitory mechanism of TH6342 does not occupy the SAMHD1 nucleotide-binding pocket, gently binds the target, and functions as a chemical probe ^[1] .
In Vitro	TH6342 (2.5, 10, 40 μM) blocks dGTP-induced SAMHD1 activation in a dose-dependent manner, without altering the stability of SAMHD1 to pronase treatment under 0.05-0.5 mM concentration ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zhang SM, et al. Identification and evaluation of small-molecule inhibitors against the dNTPase SAMHD1 via a comprehensive screening funnel. *iScience*. 2024 Jan 13;27(2):108907.

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

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