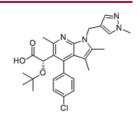


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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	STP0404
Cat. No.	:	PC-73436
CAS No.	:	2245231-10-9
Molecular Formula	:	C ₂₇ H ₃₁ CIN ₄ O ₃
Molecular Weight	:	495.020
Target	:	HIV
Solubility	:	10 mM in DMSO



Biological Activity

Pirmitegravir (STP0404) is a highly potent, first-in-class, allosteric **HIV-1 integrase** inhibitor (ALLINI) with IC50 of 0.41 nM against HIV-1NL4-3 in human PBMCs.

STP0404 inhibited dual tropic HIV-189.6 at 1.4 nM IC50 in CEMx174 cells.

STP0404 inhibited IN-LEDGF/p75 binding with IC50 of 0.19 uM in HTRF-based assay.

STP0404 binds to the host LEDGF/p75 protein binding pocket of the IN dimer, which induces aberrant IN oligomerization and blocks the IN-RNA interaction.

STP0404 inhibits proper localization of HIV-1 RNA genomes in viral particles during viral maturation.

Y99H and A128T mutations at the LEDGF/p75 binding pocket render resistance to STP0404.

References

Maehigashi T, et al. *PLoS Pathog*. 2021 Jul 22;17(7):e1009671.

Caution: Product has not been fully validated for medical applications. Lab Use Only! E-mail: tech@probechem.com