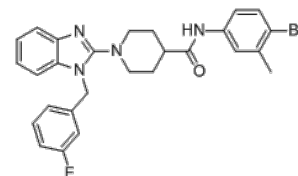


**Product Name** : iPAF1C  
**Cat. No.** : PC-20164  
**CAS No.** : 950403-60-8  
**Molecular Formula** : C<sub>27</sub>H<sub>26</sub>BrFN<sub>4</sub>O  
**Molecular Weight** : 521.43  
**Target** : HIV  
**Solubility** : 10 mM in DMSO



## Biological Activity

iPAF1C (PAF1C inhibitor) is a first-in-class, specific inhibitor of polymerase-associated factor 1 complex (**PAF1C**), iPAF1C binds specifically to CTR9 and disrupts of **PAF1-CTR9** interaction, enhances **HIV-1** latency reversal.

iPAF1C impairs the genome-wide chromatin occupancy of PAF1 and induces global release of RNA Pol II from the promoter-proximal region into gene bodies.

iPAF1C reduces RNA Pol II pausing at HS-down-regulated genes.

iPAF1C treatment closely phenocopies the transcriptional impacts of acute PAF1 depletion.

iPAF1C enhances the activity of latency-reversing agents (LRAs) by enhancing transcriptional elongation of integrated HIV-1 proviruses.

iPAF1C reverses HIV-1 latency in peripheral blood mononuclear cells (PBMCs) from persons living with HIV-1 (PLWH).

## References

Soliman SHA, et al. *Sci Adv.* 2023 Mar 10;9(10):eadf2468.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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