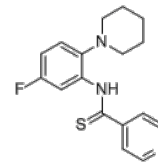


**Product Name** : FIT-039  
**Cat. No.** : PC-63455  
**CAS No.** : 1113044-49-7  
**Molecular Formula** : C<sub>17</sub>H<sub>18</sub>FN<sub>3</sub>S  
**Molecular Weight** : 315.41  
**Target** : Cyclin-dependent Kinase (CDK)  
**Solubility** : 10 mM in DMSO



## Biological Activity

FIT-039 is a potent, selective **CDK9** inhibitor with IC<sub>50</sub> of 5.8 μM for CKD9/cyclin T1, suppresses the replication of **HSV-1** (IC<sub>50</sub>=0.69 μM).

FIT-039 shows no marked inhibitory effect on CDK4/cyclinD3, does not inhibit other CDKs, including CDK2/cyclinB1, CDK2/cyclinE1, CDK5/p25, CDK6/cyclinD3, or CDK7/cyclinH/MAT.

FIT-039 suppresses viral replication without affecting the host cell cycle, inhibits viral transcription; also inhibits HBV propagation and HIV-1 replication.

FIT-039 suppresses HPV viral oncogenes E6 and E7, and shows therapeutic effect on HPV-induced neoplasia in vivo.

## References

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Tanaka T, et al. *Antiviral Res.* 2016 Sep;133:156-64.

Ajiro M, et al. *Clin Cancer Res.* 2018 Apr 30. pii: clincanres.3119.2017.

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

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