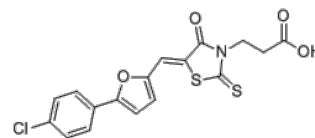


**Product Name** : Claficapavir  
**Cat. No.** : PC-73411  
**CAS No.** : 2055732-24-4  
**Molecular Formula** : C<sub>17</sub>H<sub>12</sub>ClNO<sub>4</sub>S<sub>2</sub>  
**Molecular Weight** : 393.856  
**Target** : HIV  
**Solubility** : 10 mM in DMSO



### Biological Activity

Claficapavir (A1752) is a specific small molecule inhibitor of **HIV-1 nucleocapsid** protein (K<sub>d</sub>=20 nM), shows a strong antiviral efficacy with IC<sub>50</sub> of 1 μM.

A1752 binds directly to HIV-1 nucleocapsid protein (NC), specifically inhibits the chaperone functions of NC including Psi RNA dimerization and complementary trans-activation response element (cTAR) DNA destabilization.

A1752 also disrupts the proper Gag processing.

A1752 generates noninfectious viral particles with defects in uncoating and reverse transcription in the infected cells.

### References

Kim MJ, et al. *Retrovirology*. 2015 Nov 6;12:90.

Suppiah J, et al. *Hepat Mon*. 2014 Nov 30;14(12):e22565.

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

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