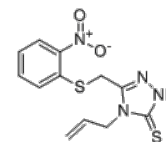


**Product Name** : SSYA 10-001  
**Cat. No.** : PC-72800  
**CAS No.** : 675104-49-1  
**Molecular Formula** : C<sub>12</sub>H<sub>12</sub>N<sub>4</sub>O<sub>2</sub>S<sub>2</sub>  
**Molecular Weight** : 308.37  
**Target** : SARS-CoV-2 Inhibitors  
**Solubility** : 10 mM in DMSO



## Biological Activity

SSYA 10-001 (DSHS00884, SSYA10-001) is a small molecule inhibitor of **SARS-CoV-2 Nsp13 helicase** with IC<sub>50</sub> of 3.5 μM. SSYA 10-001 specifically blocks the double-stranded RNA (dsRNA) and dsDNA unwinding activities of nsp13 with IC<sub>50</sub> of 5.70 and 5.30 μM, respectively.

SSYA 10-001 also has inhibitory activity (50% effective concentration [EC(50)] = 8.95 μM) in a SARS-CoV replicon assay, with low cytotoxicity.

SSYA10-001 does not affect ATP hydrolysis or nsp13 binding to the nucleic acid substrate.

SSYA10-001 did not inhibit hepatitis C virus (HCV) helicase, other bacterial and viral RNA-dependent RNA polymerases, or reverse transcriptase.

SSYA10-001 also inhibits replication of two other coronaviruses, mouse hepatitis virus (MHV) and Middle Eastern respiratory syndrome coronavirus (MERS-CoV).

## References

Adedeji AO, et al. *Antimicrob Agents Chemother*. 2012 Sep;56(9):4718-28.

Adedeji AO, et al. *Antimicrob Agents Chemother*. 2014 Aug;58(8):4894-8.

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

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