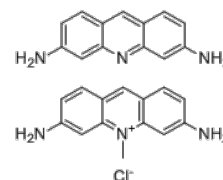


**Product Name** : Acriflavine  
**Cat. No.** : PC-72814  
**CAS No.** : 8048-52-0  
**Molecular Formula** : C<sub>14</sub>H<sub>14</sub>ClN<sub>3</sub>  
**Molecular Weight** : 259.73  
**Target** : SARS-CoV-2 Inhibitors  
**Solubility** : 10 mM in DMSO



## Biological Activity

Acriflavine (Acriflavin) is a topical antiseptic that found to be a potent papain-like protease (**PLpro**) inhibitor, inhibits SARS-CoV-2 and other betacoronaviruses.

Acriflavine blocks the PLpro catalytic pocket in an unexpected binding mode, inhibits viral replication at nanomolar concentration in cellular models, in vivo in mice and ex vivo in human airway epithelia, with broad range activity against SARS-CoV-2 and other betacoronaviruses.

Acriflavine efficiently inhibited MERS-CoV (IC<sub>50</sub> = 21 nM) and HCoV-OC43 (IC<sub>50</sub>= 105 nM).

## References

Napolitano V, et al. *Cell Chem Biol.* 2022 Jan 11:S2451-9456(21)00513-4.

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

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