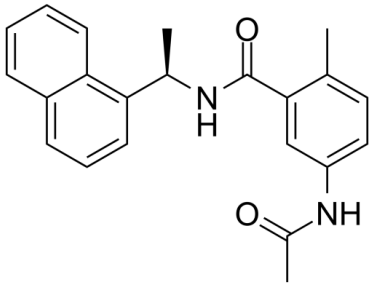
Data Sheet

Product Name:	PLpro inhibitor
Cat. No.:	CS-2273
CAS No.:	1093070-14-4
Molecular Formula:	C22H22N2O2
Molecular Weight:	346.42
Target:	SARS-CoV
Pathway:	Anti-infection
Solubility:	DMSO : ≥ 42 mg/mL (121.24 mM)



BIOLOGICAL ACTIVITY:

PLpro inhibitor is a potent inhibitor of papain-like protease (PLpro) with IC50 of 2.6 uM. IC50 Value: 2.6 uM [1] Target: PLpro; SARS-CoV in vitro: PLpro inhibitor is a potent inhibitor against the papain-like protease (PLpro) from the coronavirus that causes severe acute respiratory syndrome (SARS-CoV). PLpro inhibitor was found to have IC50 value of 2.6 ± 0.1 μM. PLpro inhibitor display significant antiviral activity with EC50 values of 13.1±0.7 uM, without toxicity up to the highest concentration tested. Notably, the increasing antiviral potency correlates with the in vitro inhibition of PLpro, suggesting that the compounds work directly on the enzyme in cells [1,2]. in vivo:

References:

[1]. Ratia, K., et al., A noncovalent class of papain-like protease/deubiquitinase inhibitors blocks SARS virus replication. Proc Natl Acad Sci U S A, 2008. 105(42): p. 16119-24.

[2]. http://www.google.com/patents/WO2010022355A1cl=en

CAIndexNames:

Benzamide, 5-(acetylamino)-2-methyl-N-[(1R)-1-(1-naphthalenyl)ethyl]-

SMILES:

O=C(C1=CC(NC(C)=O)=CC=C1C)N[C@H](C)C2=C(C=CC=C3)C3=CC=C2

Caution: Product has not been fully validated for medical applications. For research use only.

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