

Product Data Sheet

Product Name: PLpro inhibitor

Cat. No.: GC36939

Chemical Properties

Cas. No. 1093070-14-4

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

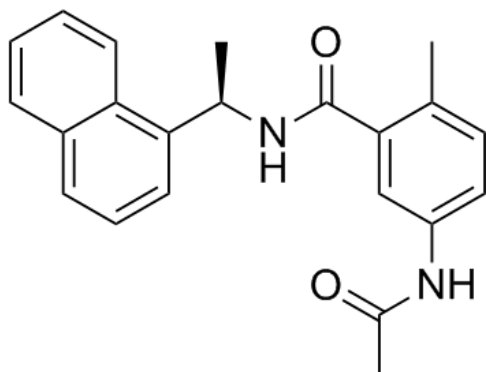
Formula C22H22N2O2 M.Wt 346.42

Solubility DMSO: ≥ 42 mg/mL (121.24 mM) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

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:

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

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[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>

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