

**Product Name:** PLpro inhibitor 6

**Catalog No.:** 7357

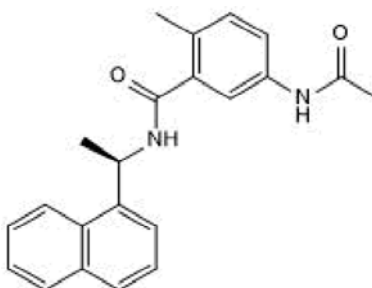
**Batch No.:** 1

CAS Number: 1093070-14-4

IUPAC Name: 5-(Acetylamino)-2-methyl-N-[(1R)-1-(1-naphthalenyl)ethyl]benzamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>22</sub>H<sub>22</sub>N<sub>2</sub>O<sub>2</sub>  
**Batch Molecular Weight:** 346.43  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 20 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	26.28	6.4	8.09
Found	75.83	6.37	8.15

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Description:**

SARS-CoV and SAR-CoV-2 PLpro inhibitor (IC<sub>50</sub> values are 2.6 and 5.0 μM, respectively). Inhibits SARS-CoV and SARS-CoV-2 infection of Vero E6 cells in vitro (EC<sub>50</sub> values are 13.1 and 21 μM, respectively).

**Physical and Chemical Properties:**

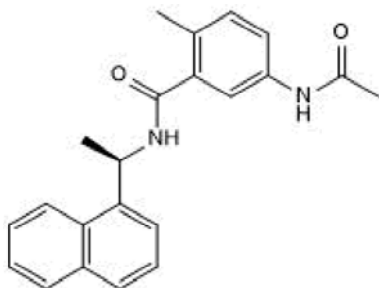
Batch Molecular Formula: C<sub>22</sub>H<sub>22</sub>N<sub>2</sub>O<sub>2</sub>

Batch Molecular Weight: 346.43

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 20 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Freitas *et al*** (2020) Characterization and noncovalent inhibition of the deubiquitinase and deISGylase activity of SARS-CoV-2 papain-like protease. *ACS Infect.Dis.* **6** 2099. PMID: 32428392.

**Ratia *et al*** (2008) A noncovalent class of papain-like protease/deubiquitinase inhibitors blocks SARS virus replication. *Proc.Natl.Acad.Sci.U.S.A.* **105** 16119. PMID: 18852458.

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