

Product Name: GRL 0617

Catalog No.: 7280

Batch No.: 1

CAS Number: 1093070-16-6

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₀N₂O.¼H₂O

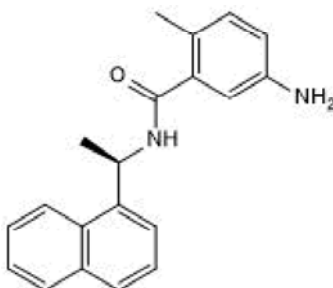
Batch Molecular Weight: 308.89

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity

Chiral HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = -79.29 (Concentration = 1, Solvent = Chloroform)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	77.77	6.69	9.07
Found	78.15	6.66	9.38

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

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Description:

Coronavirus papain-like protease (PLpro) inhibitor (IC₅₀ values are 0.6 and 0.8 μM for SARS-COV and SARS-CoV-2 PLpro, respectively). Inhibits deubiquitination activity of SARS-CoV PLpro. Displays no inhibition of human deubiquitinating enzymes. Improves cell viability following SARS-CoV infection. Inhibits SARS-CoV-2 viral replication and induces antiviral immune signaling pathways following SARS-CoV-2 infection in CaCo-2 cells.

Physical and Chemical Properties:

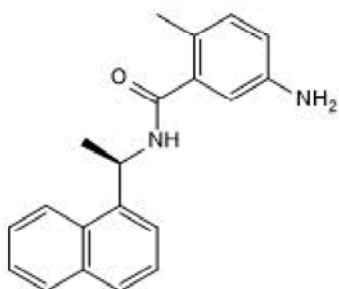
Batch Molecular Formula: C₂₀H₂₀N₂O.½H₂O

Batch Molecular Weight: 308.89

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



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.. PMID: 32428392.

Shin et al (2020) Papain-like protease regulates SARS-CoV-2 viral spread and innate immunity. Nature.. PMID: 32726803.

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

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 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.

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