

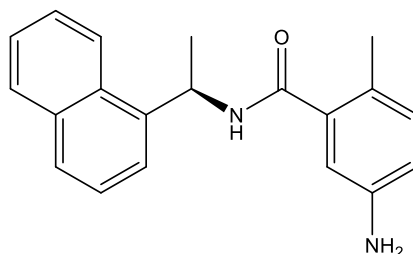
**Catalog # 10-4965**

**GRL-0617**

CAS# 1093070-16-6

5-Amino-2-methyl-N-(1R-naphthalen-1-yl-ethyl)benzamide

Lot # FBA6214



GRL-0617 is a potent ( $IC_{50} = 600$  nM) noncovalent inhibitor of severe acute respiratory syndrome-coronavirus papain-like protease (SARS-CoV PLpro). GRL0617 inhibited SARS-CoV viral replication in Vero E6 cells with no cytotoxicity ( $EC_{50} = 15$   $\mu$ M). Inactive against human DUB-like proteases HAUSP, USP18, UCH-L1, UCH-L3, and PLP2. GRL-0617 was recently shown to block SARS-CoV2 replication in CaCo-2 cells ( $IC_{50} = 1.50$   $\mu$ M for SCoV2-PLpro), impair the virus-induced cytopathogenic effect, and maintain the antiviral interferon pathway.<sup>3</sup>

**References:**

- 1) Ratia *et al.* (2008), *A noncovalent class of papain-like protease/deubiquitinase inhibitors blocks SARS virus replication*; Proc. Natl. Acad. Sci. USA, **105** 16119
- 2) Ghosh *et al.* (2009), *Structure-Based Design, Synthesis, and Biological Evaluation of a Series of Novel and Reversible Inhibitors for the Severe Acute Respiratory Syndrome-Coronavirus Papain-Like Protease*; J. Med. Chem. **52** 5228
- 3) Shin *et al.* (2020), *Papain-like protease regulates SARS-CoV2 viral spread and innate immunity*; Nature **587** 657

**PHYSICAL DATA**

Molecular Weight:	304.39
Molecular Formula:	C <sub>20</sub> H <sub>20</sub> N <sub>2</sub> O
Purity:	99% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>30 mg/ml) or Ethanol (15 mg/ml)
Physical Description:	Beige solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**