# TOCRIS a biotechne brand

#### Print Date: Jul 27th 2020

# **Certificate of Analysis**

# www.tocris.com

### Product Name: MPro N3

# Catalog No.: 7230 Batch No.: 1

CAS Number: 884650-98-0

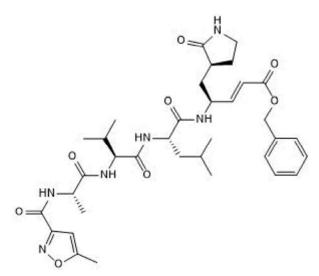
IUPAC Name:

*N*-[(5-Methyl-3-isoxazolyl)carbonyl]-L-alanyl-L-valyl-*N*-[(1*S*,2*E*)-4-oxo-1-[[(3*S*)-2-oxo-3-pyrrolidinyl]methyl] -4-(phenylmethoxy)-2-buten-1-yl]-L-leucinamide

# 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure:

C<sub>35</sub>H<sub>48</sub>N<sub>6</sub>O<sub>8</sub>.½H<sub>2</sub>O 689.81 White solid DMSO to 50 mM Store at -20°C



# 2. ANALYTICAL DATA

HPLC: <sup>1</sup>H NMR: Mass Spectrum: Microanalysis: Shows 98.8% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 60.94 7.16 12.18 Found 60.61 7.13 12.18

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

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#### **Description:**

Coronavirus main protease (M<sup>pro</sup>) inhibitor (respective IC<sub>50</sub> values are 2.7, 4 and 8.8  $\mu$ M for MHV-A29, HCoV-229E and FOPV replication in vitro). Inhibits viral cell infection in an MHV plaque reduction assay. Also inhibits SARS-CoV-2 viral cell entry in a plaque reduction assay (IC<sub>50</sub> = 16.8  $\mu$ M).

#### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>35</sub>H<sub>48</sub>N<sub>6</sub>O<sub>8</sub>.½H<sub>2</sub>O Batch Molecular Weight: 689.81 Physical Appearance: White solid

#### Minimum Purity: ≥98%

#### **Batch Molecular Structure:**

# 

#### **References:**

Jin *et al* (2020) Structure of Mpro from SARS-CoV-2 and discovery of its inhibitors. Nature. **582** 289. PMID: 32272481. Yang *et al* (2005) Design of wide-spectrum inhibitors targeting coronavirus main proteases. PLoS.One. **10**. PMID: 16128623.

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Storage: Store at -20°C

#### Solubility & Usage Info:

DMSO to 50 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  $45-60^{\circ}C$  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.