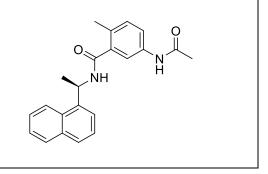
# **Product data sheet**



MedKoo Cat#: 555824				
Name: KOM70144				
CAS#: 1093070-14-4				
Chemical Formula: C <sub>22</sub> H <sub>22</sub> N <sub>2</sub> O <sub>2</sub>				
Exact Mass: 346.1681				
Molecular Weight: 346.43				
Product supplied as:	Powder			
Purity (by HPLC):	$\geq 98\%$			
Shipping conditions	Ambient temperature			
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years.			
	In solvent: -80°C 3 months; -20°C 2 weeks.			



### 1. Product description:

KOM70144, also known as PLpro inhibitor, is a potent inhibitor of papain-like protease (PLpro) with an IC50 of 2.6  $\mu$ M. PLpro inhibitor inhibits SARS-CoV-2 PLpro with an IC50 of 5.0  $\mu$ M and an EC50 of 21.0  $\mu$ M. KOM70144 was first reported by Kiira Ratia et al, Proc Natl Acad Sci U S A. 2008;105(42):16119-16124. (compound 6). This product has no formal name at the moment. For the convenience of communication, a temporary code name was therefore proposed according to MedKoo Chemical Nomenclature (see web page: https://www.medkoo.com/page/naming).

### 2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under "QC And Documents" section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

#### 3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
TBD	TBD	TBD

### 4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.89 mL	14.43 mL	28.87 mL
5 mM	0.58 mL	2.89 mL	5.77 mL
10 mM	0.29 mL	1.44 mL	2.89 mL
50 mM	0.06 mL	0.29 mL	0.58 mL

### 5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of "Calculator"

### 6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study	
TBD	
In vivo study	
TBD	
7. Bioactivity	
Biological target:	
TBD	
In vitro activity	
TBD	
In vivo activity	
TBD	
	MedKoo Biosciences    http://www.medkoo.com    sales@medkoo.com

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Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.