

Product data sheet



MedKoo Cat#: 555824 Name: KOM70144 CAS#: 1093070-14-4 Chemical Formula: C ₂₂ H ₂₂ N ₂ O ₂ Exact Mass: 346.1681 Molecular Weight: 346.43	
Product supplied as: Powder	
Purity (by HPLC): ≥ 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 μM. PLpro inhibitor inhibits SARS-CoV-2 PLpro with an IC₅₀ of 5.0 μM and an EC₅₀ of 21.0 μM. 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

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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.