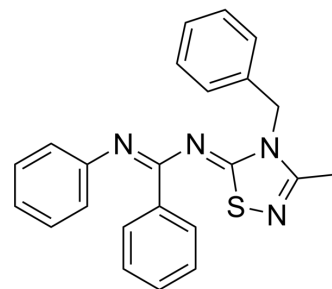


## RNF5 inhibitor inh-02

<b>Cat. No.:</b>	HY-123967		
<b>CAS No.:</b>	324579-65-9		
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>20</sub> N <sub>4</sub> S		
<b>Molecular Weight:</b>	384.5		
<b>Target:</b>	E1/E2/E3 Enzyme		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 83.33 mg/mL (216.72 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.6008 mL	13.0039 mL	26.0078 mL
5 mM	0.5202 mL	2.6008 mL	5.2016 mL
10 mM	0.2601 mL	1.3004 mL	2.6008 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

RNF5 inhibitor inh-02 is a potent inhibitor of E3 ubiquitin ligase RNF5/RMA1. RNF5 inhibitor inh-02 leads to significant F508del-CFTR rescue (EC<sub>50</sub>=2.2 μM) in bronchial epithelial cells homozygous for the F508del mutation. RNF5 inhibitor inh-02 can be used for cystic fibrosis research<sup>[1]</sup>.

### REFERENCES

[1]. Elvira Sondo, et al. Pharmacological Inhibition of the Ubiquitin Ligase RNF5 Rescues F508del-CFTR in Cystic Fibrosis Airway Epithelia. Cell Chem Biol. 2018 Jul 19;25(7):891-905.e8.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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