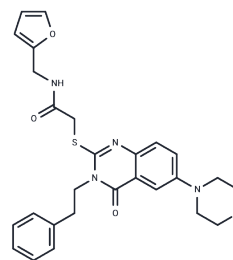


## STAMPB-IN-1

## Chemical Properties

CAS No. :	896683-78-6
Formula:	C <sub>27</sub> H <sub>28</sub> N <sub>4</sub> O <sub>4</sub> S
Molecular Weight:	504.6
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	STAMPB-IN-1 is a novel selective antagonist of deubiquitinase STAM-binding protein (STAMPB), decreasing NALP7 protein levels and suppressing IL-1 $\beta$ release after TLR agonism.
Targets(IC50)	Others,DUB
In vitro	A small-molecule inhibitor of STAMPB deubiquitinase activity, BC-1471, decreases NALP7 protein levels and suppresses IL-1 $\beta$ release after TLR agonism. These findings describe a unique pathway of inflammasome regulation with the identification of STAMPB as a potential therapeutic target to reduce pro-inflammatory stress.

## Solubility Information

Solubility	DMSO: 5.05 mg/mL (10.01 mM),Sonication is recommended. H <sub>2</sub> O: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9818 mL	9.9088 mL	19.8177 mL
5 mM	0.3964 mL	1.9818 mL	3.9635 mL
10 mM	0.1982 mL	0.9909 mL	1.9818 mL
50 mM	0.0396 mL	0.1982 mL	0.3964 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Joseph S Bednash, Nathaniel Weathington, James Londino. Targeting the deubiquitinase STAMPB inhibits NALP7 inflammasome activity. *Nat Commun.* 2017 May 11;8:15203.

Guo Y, Liu Q, Mallette E, et al. Structural and functional characterization of ubiquitin variant inhibitors for the JAMM-family deubiquitinases STAMPB and STAMBPL1. *Journal of Biological Chemistry.* 2021: 101107.

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