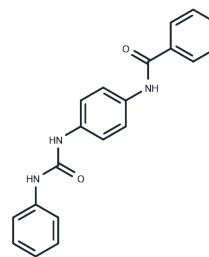


## Sirtuin-1 inhibitor 1

## Chemical Properties

CAS No. :	945114-10-3
Formula:	C <sub>20</sub> H <sub>17</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	331.37
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Sirtuin-1 inhibitor 1 is an inhibitor against deacetylase-1 (Sirtuin-1) and can be used to study senescence and cell death in the organism.
Targets(IC50)	Sirtuin

## Solubility Information

Solubility	DMSO: 15 mg/mL (45.27 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0178 mL	15.0889 mL	30.1777 mL
5 mM	0.6036 mL	3.0178 mL	6.0355 mL
10 mM	0.3018 mL	1.5089 mL	3.0178 mL
50 mM	0.0604 mL	0.3018 mL	0.6036 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

Anastasiia Gryniukova, et al. AI-Powered Virtual Screening of Large Compound Libraries Leads to the Discovery of Novel Inhibitors of Sirtuin-1. *J Med Chem.* 2023 Aug 10;66(15):10241-10251.

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