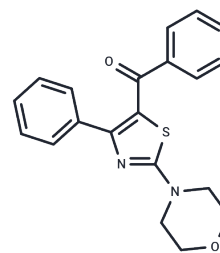


## 5-LOX-IN-1

## Chemical Properties

CAS No. :	55040-82-9
Formula:	C <sub>20</sub> H <sub>18</sub> N <sub>2</sub> O <sub>2</sub> S
Molecular Weight:	350.43
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	5-LOX-IN-1 is a 5-Lipoxygenase (5-LOX) inhibitor (IC <sub>50</sub> : 2.3 μM).5-LOX-IN-1 can be used for cancer research.
Targets(IC <sub>50</sub> )	Lipoxygenase
In vitro	5-LOX-IN-1 (0-10 μM) inhibits 5-lipoxygenase (5-LOX) activity with an IC <sub>50</sub> of 2.3 μM.[1]

## Solubility Information

Solubility	DMSO: 90 mg/mL (256.83 mM),Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8536 mL	14.2682 mL	28.5364 mL
5 mM	0.5707 mL	2.8536 mL	5.7073 mL
10 mM	0.2854 mL	1.4268 mL	2.8536 mL
50 mM	0.0571 mL	0.2854 mL	0.5707 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

Sinha S, et al. Design, synthesis and identification of novel substituted 2-amino thiazole analogues as potential anti-inflammatory agents targeting 5-lipoxygenase. *Eur J Med Chem.* 2018;158:34-50.

Garscha U, et al. Pharmacological profile and efficiency in vivo of diflapolin, the first dual inhibitor of 5-lipoxygenase-activating protein and soluble epoxide hydrolase. *Sci Rep.* 2017;7(1):9398.

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