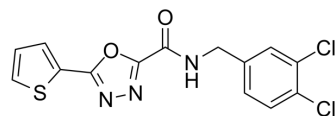


## SDH-IN-1

Cat. No.:	HY-139983
CAS No.:	2685795-52-0
Molecular Formula:	C <sub>14</sub> H <sub>9</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>2</sub> S
Molecular Weight:	354.21
Target:	Fungal
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 16.67 mg/mL (47.06 mM; ultrasonic and warming and heat to 80°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.8232 mL	14.1159 mL	28.2318 mL
	5 mM	0.5646 mL	2.8232 mL	5.6464 mL
	10 mM	0.2823 mL	1.4116 mL	2.8232 mL

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

### BIOLOGICAL ACTIVITY

#### Description

SDH-IN-1 (compound 4i) is a succinate dehydrogenase (SDH) inhibitor with an IC<sub>50</sub> of 4.53 μM. SDH-IN-1 has potent antifungal activities. SDH-IN-1 displays potent activity against *S. sclerotiorum* (EC<sub>50</sub> of 0.14 mg/L)<sup>[1]</sup>.

### REFERENCES

[1]. Zihui Yang, et al. Design, Synthesis, and Antifungal Activity of Novel Thiophene/Furan-1,3,4-Oxadiazole Carboxamides as Potent Succinate Dehydrogenase Inhibitors. J Agric Food Chem. 2021 Nov 17;69(45):13373-13385.

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

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