

## SDH-IN-4

## Chemical Properties

CAS No. :

Formula: C<sub>11</sub>H<sub>9</sub>Cl<sub>2</sub>F<sub>3</sub>N<sub>4</sub>O<sub>2</sub>S

Molecular Weight: 389.18

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	SDH-IN-4 (compound B6) is a selective succinate dehydrogenase (SDH) inhibitor with an IC <sub>50</sub> of 0.28 µg/mL, demonstrating potent antifungal effects, including an EC <sub>50</sub> of 0.23 µg/mL against <i>R. solani</i> [1].
Targets(IC <sub>50</sub> )	Others,Antifungal
In vitro	SDH-IN-4 at a concentration of 10 µg/mL significantly inhibited the mycelial growth of the fungi <i>R. solani</i> , <i>F. graminearum</i> , <i>B. cinerea</i> , and <i>A. solani</i> over a period of 3-5 days [1].
In vivo	SDH-IN-4 at a concentration of 100 µg/mL applied for 5 days exhibited an 87.48% inhibition rate against <i>R. solani</i> in detached rice leaves [1]. Additionally, SDH-IN-4 at 20 µg/mL inhibited the growth and development of <i>R. solani</i> mycelium and severely damaged the fungal cell membrane within 0.5-3 hours [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5695 mL	12.8475 mL	25.6951 mL
5 mM	0.5139 mL	2.5695 mL	5.139 mL
10 mM	0.257 mL	1.2848 mL	2.5695 mL
50 mM	0.0514 mL	0.257 mL	0.5139 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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