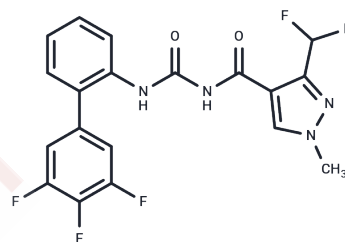


## SDH-IN-12

## Chemical Properties

CAS No. : 3027210-28-9  
 Formula: C<sub>19</sub>H<sub>13</sub>F<sub>5</sub>N<sub>4</sub>O<sub>2</sub>  
 Molecular Weight: 424.32  
 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-12 (compound 9b), a succinate dehydrogenase inhibitor, shows activity against <i>S. sclerotiorum</i> and <i>C. arachidicola</i> , with respective EC <sub>50</sub> values of 0.97 and 2.07 μM. The compound demonstrates no significant herbicidal effects on monocotyledonous and dicotyledonous plants [1].
Targets(IC <sub>50</sub> )	Antifungal
In vitro	SDH-IN-12, at a concentration of 50 μM, exhibits fungicidal activity against <i>S. sclerotiorum</i> (98%), <i>Alternaria solani</i> (71%), <i>B. cinerea</i> (50%), <i>R. solani</i> (90%), and <i>C. arachidicola</i> (90%) [1]. At 10 μM, SDH-IN-12 disrupts the ultrastructure of <i>S. sclerotiorum</i> , leading to surface contraction and significant collapse of the hyphae [1]. Additionally, SDH-IN-12 has good bioavailability with plasma protein binding (PPB) less than 90% [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3567 mL	11.7836 mL	23.5671 mL
5 mM	0.4713 mL	2.3567 mL	4.7134 mL
10 mM	0.2357 mL	1.1784 mL	2.3567 mL
50 mM	0.0471 mL	0.2357 mL	0.4713 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481