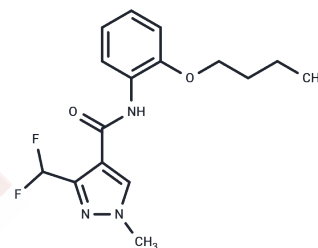


## SDH-IN-5

## Chemical Properties

CAS No. :	2922765-95-3
Formula:	C <sub>16</sub> H <sub>19</sub> F <sub>2</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	323.34
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-5 is a potent succinate dehydrogenase inhibitor (SDHI). It disrupts fungal mitochondrial respiration by blocking Complex II electron transfer, used for broad-spectrum agricultural fungicide research.
Targets(IC50)	Dehydrogenase
In vitro	SDH-IN-5 inhibits SDH (IC <sub>50</sub> = 3.293 μM) and shows potent activity against R. solani (EC <sub>50</sub> = 0.046 μg/mL) [1].

## Solubility Information

Solubility	DMSO: 80 mg/mL (247.42 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	3.0927 mL	15.4636 mL	30.9272 mL
5 mM	0.6185 mL	3.0927 mL	6.1854 mL
10 mM	0.3093 mL	1.5464 mL	3.0927 mL
50 mM	0.0619 mL	0.3093 mL	0.6185 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

Kinney WA, et al. Design and synthesis of [2-(8,9-dioxo-2,6-diazabicyclo[5.2.0]non-1(7)-en-2-yl)-ethyl]phosphonic acid(EAA-090), a potent N-methyl-D-aspartate antagonist, via the use of 3-cyclobutene-1,2-dione as an achiral alpha-amino acid bioisostere. J Med Chem. 1998 Jan 15;41(2):236-46.

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