

SDH-IN-3

Chemical Properties

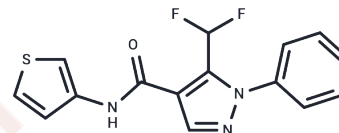
CAS No. : 2805297-11-2

Formula: C₁₅H₁₁F₂N₃O₅

Molecular Weight: 319.33

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-3 is a succinate dehydrogenase (SDH) inhibitor with potent antifungal activity, demonstrating an inhibition concentration (IC ₅₀) of 7.2 µg/mL and an effective concentration (EC ₅₀) of 1.9 µg/mL against <i>Nigrospora oryzae</i> , making it valuable for anti-infection research [1].
Targets(IC ₅₀)	Antibiotic, Antifungal
In vitro	SDH-IN-3 (Compound T6) at a concentration of 40 µg/mL for 6-7 days exhibited a prophylactic effect of 81.5% and a curative effect of 43.0% against <i>N. oryzae</i> mycelia infection in rice [1]. Additionally, SDH-IN-3 in the range of 0-40 µg/mL over 14-80 hours significantly inhibited the growth of <i>N. oryzae</i> mycelia, as well as effectively impeding spore germination and germ tube elongation [1]. Furthermore, SDH-IN-3 at 0-20 µg/mL for 12-36 hours compromised the membrane integrity of <i>N. oryzae</i> mycelia by increasing cellular membrane permeability and causing lipid peroxidation [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1316 mL	15.6578 mL	31.3156 mL
5 mM	0.6263 mL	3.1316 mL	6.2631 mL
10 mM	0.3132 mL	1.5658 mL	3.1316 mL
50 mM	0.0626 mL	0.3132 mL	0.6263 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