

Antifungal agent 134

Chemical Properties

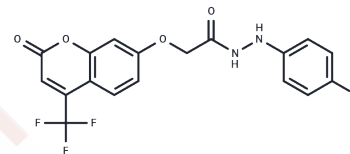
CAS No. : 3080992-04-4

Formula: C₁₈H₁₂F₄N₂O₄

Molecular Weight: 396.29

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	Antifungalagent 134 (Compound B13) is an antifungal agent effective against <i>Botrytis cinerea</i> , <i>Alternaria solani</i> , <i>Fusarium graminearum</i> , <i>Rhizoctonia solani</i> , <i>Colletotrichum orbiculare</i> , and <i>Alternaria alternata</i> with EC ₅₀ values of 3.24, 1.89, 1.70, 0.36, 4.27, and 1.50 µg/mL, respectively. It disrupts the fungal cell membranes and mitochondria, leading to substantial accumulation of reactive oxygen species (ROS). Additionally, Antifungalagent 134 exhibits significant herbicidal activity on field weeds such as <i>Amaranthus retroflexus</i> L and <i>Abutilon theophrasti</i> Medicus, and is applicable in crop disease and field weed research.
Targets(IC50)	Others,Antifungal,ROS

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5234 mL	12.617 mL	25.234 mL
5 mM	0.5047 mL	2.5234 mL	5.0468 mL
10 mM	0.2523 mL	1.2617 mL	2.5234 mL
50 mM	0.0505 mL	0.2523 mL	0.5047 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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