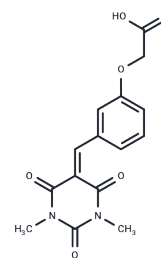


CDA-IN-1

Chemical Properties

CAS No. : 354562-11-1
 Formula: C₁₅H₁₄N₂O₆
 Molecular Weight: 318.281
 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 | CDA-IN-1 (Compound vs#2-1) is an inhibitor of chitin deacetylase (CDA) that exhibits antifungal activity. By inhibiting fungal CDA activity, it activates plant immune responses and leads to the accumulation of reactive oxygen species (ROS), hindering fungal growth. At a concentration of 100 μM, CDA-IN-1 achieves inhibition rates of 86.9% on <i>P. xanthii</i> 's PxCDA1 and 74.5% on PxCDA2. CDA-IN-1 is applicable in research on fungal plant diseases, such as cucumber powdery mildew and tomato gray mold. |
| Targets(IC50) | Antifungal |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.1419 mL | 15.7094 mL | 31.4189 mL |
| 5 mM | 0.6284 mL | 3.1419 mL | 6.2838 mL |
| 10 mM | 0.3142 mL | 1.5709 mL | 3.1419 mL |
| 50 mM | 0.0628 mL | 0.3142 mL | 0.6284 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

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