

TMV-IN-1

Chemical Properties

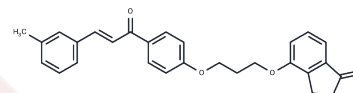
CAS No. : 2883408-27-1

Formula: C₂₈H₂₆O₄

Molecular Weight: 426.5

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	TMV-IN-1, a chalcone derivative, serves as an inhibitor of the tobacco mosaic virus (TMV), demonstrating effective therapeutic and protective activities, with EC ₅₀ values of 70.7 µg/mL and 60.8 µg/mL, respectively. This compound is applicable in research related to infection, inflammation, and tumor [1].
Targets(IC ₅₀)	Others,Antibacterial,TMV
In vitro	TMV-IN-1 (compound N2) demonstrates effective curative and protective activities against TMV, with EC ₅₀ values of 70.7 µg/mL and 60.8 µg/mL, respectively [1]. It binds to the TMV coat protein (TMV-CP) with a K _d value of 0.0427 µM [1] and reduces malondialdehyde accumulation while increasing defense enzyme content over 5-7 days [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3447 mL	11.7233 mL	23.4467 mL
5 mM	0.4689 mL	2.3447 mL	4.6893 mL
10 mM	0.2345 mL	1.1723 mL	2.3447 mL
50 mM	0.0469 mL	0.2345 mL	0.4689 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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