

TMV-IN-4

Chemical Properties

CAS No. : 1820823-40-2
 Formula: C₁₈H₂₁NO₄
 Molecular Weight: 315.36
 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-4 (Compound 3), a tobacco mosaic virus (TMV) inhibitor, effectively strengthens plant resistance and tolerance to TMV by binding with the TMV helicase. Furthermore, it boosts activities of peroxidase and superoxide dismutase, augmenting tobacco's resilience to TMV infection [1].
Targets(IC50)	Others, TMV
In vitro	TMV-IN-4 (compound 3) demonstrates significant anti-TMV activity on <i>N. glutinosa</i> leaves, with a 58.5% inhibition rate at 20 µM and an IC ₅₀ of 19.6 µM. Pre-treatment with compound 3 increases <i>N. glutinosa</i> 's resistance to TMV infection [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.171 mL	15.8549 mL	31.7098 mL
5 mM	0.6342 mL	3.171 mL	6.342 mL
10 mM	0.3171 mL	1.5855 mL	3.171 mL
50 mM	0.0634 mL	0.3171 mL	0.6342 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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