

## TMV-IN-2

## Chemical Properties

CAS No. :	2883408-32-8
Formula:	C <sub>27</sub> H <sub>23</sub> F <sub>04</sub>
Molecular Weight:	430.47
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-2, a chalcone derivative, functions as an inhibitor of the tobacco mosaic virus (TMV), exhibiting antiviral properties with an EC <sub>50</sub> of 89.9 µg/mL. This compound is utilized in investigating infection, inflammation, and tumor research [1].
Targets(IC <sub>50</sub> )	Others,Antibacterial,TMV
In vitro	TMV-IN-2 (compound N7) demonstrates strong activity against TMV with an EC <sub>50</sub> of 89.9 µg/mL and binds to the TMV coat protein (TMV-CP) with a dissociation constant (K <sub>d</sub> ) of 0.1890 µM [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.323 mL	11.6152 mL	23.2304 mL
5 mM	0.4646 mL	2.323 mL	4.6461 mL
10 mM	0.2323 mL	1.1615 mL	2.323 mL
50 mM	0.0465 mL	0.2323 mL	0.4646 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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