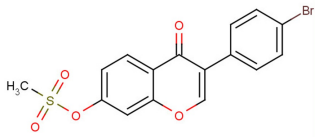
Data Sheet (Cat.No.T11760)

TargetMol
A DRUG SCREENING EXPERT

KIN101

Chemical Properties



CAS No.:	610753-87-2
Formula:	C16H11BrO5S
Molecular Weight:	395.22
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	KIN101, an isoflavone agonist of IRF-3 dependent signaling, induces IRF-3 nuclear translocation. KIN101 has broad-spectrum activity against RNA viruses. KIN101 is a potent RNA viral inhibitor with IC50s of 2 μM, >5 μM for influenza virus and Dengue virus (DNV), respectively.
Targets(IC_{50})	influenza virus: 2 μM DNV: >5 μM
In vitro	KIN 101 results in a significant increase in the levels of ISGs as well as other proteins downstream of IRF activation such as RIG-I and MDA5. KIN101 (0.1-100 μM; 18 hours) shows the antiviral activity against hepatitis C virus (HCV).KIN 101 (10 μM; 24 hours) causes a significant decrease in the NP protein abundance[1]. KIN 101 (10 μM; 18 hours) shows a >1 log decrease in HCV RNA levels. KIN 101 (0.01, 0.1, 1, 10, 100 μM) has a significant and dose-dependent effect on the formation of foci and has an IC50 of 0.2 μM[1]. KIN 101 (5, 10, 20, 50 μM; 4 hours) causes a dose-dependent decrease in influenza virus infection in MRC5 cells.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.53 mL	12.651 mL	25.302 mL
5 mM	0.506 mL	2.53 mL	5.06 mL
10 mM	0.253 mL	1.265 mL	2.53 mL
50 mM	0.051 mL	0.253 mL	0.506 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Bedard KM, et al. Isoflavone agonists of IRF-3 dependent signaling have antiviral activity against RNA viruses. J Virol. 2012 Jul;86(13):7334-44.
2. Shawn P. Iadonato, et al. Anti-viral compounds, pharmaceutical compositions and methods of use thereof. US20160122312A1.

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