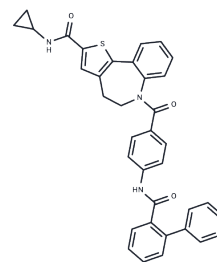


YM-53403

## Chemical Properties

CAS No. : 851331-05-0  
 Formula: C<sub>36</sub>H<sub>29</sub>N<sub>3</sub>O<sub>3</sub>S  
 Molecular Weight: 583.7  
 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	YM-53403 is an antiviral activity that effectively inhibits the replication of RSV strains belonging to subgroup A and subgroup B. It can be used to treat respiratory syncytial virus infections.
Targets(IC50)	Antiviral,RSV
In vitro	YM-53403 (0.2 μM) reduced plaque with EC50 was 0.20 ± 0.05 μM.[2] YM-53403 (50 μM) inhibited the life cycle of RSV at around 8 h post-infection in time-dependent, suggesting an inhibitory effect on early transcription and/or replication of the RSV genome. YM-53403 is an attractive compound for the treatment of RSV infection because of its highly potent anti-RSV activity and the new mode of action.[2]

## Solubility Information

Solubility	DMSO: 60 mg/mL (102.79 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7132 mL	8.566 mL	17.1321 mL
5 mM	0.3426 mL	1.7132 mL	3.4264 mL
10 mM	0.1713 mL	0.8566 mL	1.7132 mL
50 mM	0.0343 mL	0.1713 mL	0.3426 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.

Reference

Tiong Yip CL, et al. Characterization of a respiratory syncytial virus L protein inhibitor. Antimicrob Agents Chemother. 2014 Jul;58(7):3867-73.

Sudo K, et al. YM-53403, a unique anti-respiratory syncytial virus agent with a novel mechanism of action. Antiviral Res. 2005 Feb;65(2):125-31.

McCutcheon KM, et al. The Interferon Type I/III Response to Respiratory Syncytial Virus Infection in Airway Epithelial Cells Can Be Attenuated or Amplified by Antiviral Treatment. J Virol. 2015;90(4):1705-1717.

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