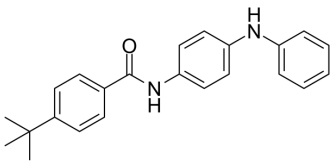
S119-8

Cat. No.:	HY-112543
CAS No.:	443639-96-1
Molecular Formula:	$C_{23}H_{24}N_2O$
Molecular Weight:	344.45
Target:	Influenza Virus
Pathway:	Anti-infection
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 150 mg/mL (435.48 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.9032 mL	14.5159 mL	29.0318 mL
5 mM	0.5806 mL	2.9032 mL	5.8064 mL
10 mM	0.2903 mL	1.4516 mL	2.9032 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

S119-8 is a broad spectrum inhibitor of influenza A and B viruses, showing activity against multiple influenza B viruses and an oseltamivir-resistant influenza A virus, but does not inhibit a non-influenza virus, vesicular stomatitis nirus (VSV)[1].

IC_{50} & Target

Influenza A and B[1]

In Vitro

S119-8 is an analog of S119. S119-8 has acquired enhanced broad-spectrum activity with improved calculated physical properties, while maintaining significant potency (IC_{50}=1.43 μM) at non-toxic (CC_{50}=66.10 μM) concentrations, albeit somewhat higher (7-fold) than that of the parent S119 against influenza A/WSN/33 H1N1 (WSN) virus. S119-8 also shows activity against multiple influenza B viruses and an oseltamivir-resistant influenza A virus, but does not inhibit a non-influenza virus, vesicular stomatitis nirus (VSV). S119-8 has increased breadth of inhibition against influenza A and B viruses accompanied by only a small loss in potency. S119-8 inhibits influenza viruses A/Puerto Rico/8/1934 (H1N1) (PR8) with an IC_{50} of 6.05 μM. S119-8 inhibits influenza A/Vietnam/1203/2004 (H5N1) with an IC_{50} of 8.42 μM[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. White KM, et al. Broad Spectrum Inhibitor of Influenza A and B Viruses Targeting the Viral Nucleoprotein. ACS Infect Dis. 2018 Feb 9;4(2):146-157.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA