

Product Data Sheet

Product Name: S119-8
Cat. No.: GC32222

Chemical Properties

Cas. No. 443639-96-1

SMILES O=C(NC1=CC=C(NC2=CC=CC=C2)C=C1)C3=CC=C(C(C)(C)C)C=C3

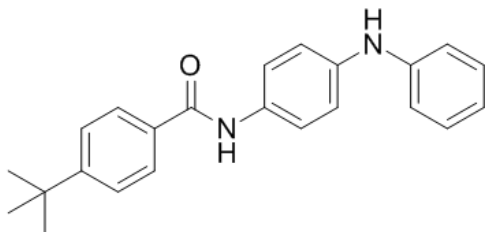
Formula $C_{23}H_{24}N_2O$ M.Wt 344.45

Solubility DMSO : ≥ 150 mg/mL (435.48 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

S119-8 is a broad spectrum inhibitor of influenza A and B viruses.

S119-8 is an analog of S119. S119-8 has acquired enhanced broad-spectrum activity with improved

Caution: Product has not been fully validated for medical applications. For research use only.

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calculated physical properties, while maintaining significant potency ($IC_{50}=1.43\ \mu M$) at non-toxic ($CC_{50}=66.10\ \mu M$) 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 virus (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 $6.05\ \mu M$. S119-8 inhibits influenza A/Vietnam/1203/2004 (H5N1) with an IC_{50} of $8.42\ \mu M$ [1].

[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.

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