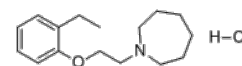


Product Name : MBX2329
Cat. No. : PC-20583
CAS No. : 1438272-42-4
Molecular Formula : C₁₆H₂₆ClNO
Molecular Weight : 283.84
Target : Influenza Virus
Solubility : 10 mM in DMSO



CAS: 1438272-42-4

Biological Activity

MBX2329 is a small molecule inhibitor of influenza virus via targeting influenza hemagglutinin (HA), specifically inhibits HA-mediated viral entry with potent antiviral activity against different influenza virus strains (IC₅₀=0.3-5.9 μM).

MBX2329 binds to HA in a nonoverlapping manner, binds to the group 1 HA-specific conformational epitope in the HA stem region.

MBX2329 displays little inhibitory activity against HIV/LASV-GP, HIV/EBOV-GP, or HIV/VSV-G with IC₅₀ values >100 μM. MBX2329 inhibits influenza A H1N1 virus strains A/PR/8/34 (H1N1), A/Florida/21/2008 (H1N1-H275Y) (oseltamivir-resistant strain), A/Washington/10/2008 (H1N1), and A/California/10/2009 (H1N1) (2009 pandemic strain) with IC₅₀s of 0.29 μM-0.53 μM.

MBX2329 displays significantly less activity against influenza A H3N2 virus strain A/Texas/12/2007 (H3N2) and influenza B virus strain B/Florida/4/2006.

MBX2329 specifically inhibits influenza viruses of group 1 HA (H1 and H5 subtypes), but not group 2 HA (H3 and H7 subtypes).

MBX2329 exhibit strong synergy with oseltamivir.

References

Basu A, et al. J Virol. 2014 Feb;88(3):1447-60.

Guan S, et al. Sci Rep. 2017 Jun 19;7(1):3786.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com