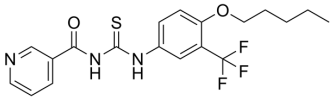
ACH-806

Cat. No.:	HY-19512
CAS No.:	870142-71-5
Molecular Formula:	$C_{19}H_{20}F_3N_3O_2S$
Molecular Weight:	411.44
Target:	HCV Protease; HCV
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ACH-806 is an NS4A antagonist which can inhibit Hepatitis C Virus (HCV) replication with an EC_{50} of 14 nM.
IC_{50} & Target	NS4A[1] EC50: 14 nM (HCV)[1]
In Vitro	ACH-806 is an NS4A antagonist which can inhibit Hepatitis C Virus (HCV) replication with an EC_{50} of 14 nM. ACH-806 treatment results in significant reductions of both NS3 and NS4A in the transfected cells. This finding is reminiscent of ACH-806-treated replicon cells in which the amounts of NS3 and NS4A are also both decreased. The total amount of NS3 in the ACH-806-treated sample is reduced by ~6-fold (100/16) and causes a reduction of NS4A-bound NS3 ~29-fold (261/9). The levels of labeled NS3 and NS4A immunoprecipitated by anti-NS3 antibody are apparently reduced after the treatment of ACH-806. ACH-806 also induces significant decreases of NS3 and NS4A and promotes p14 formation in the parental replicon cells but not in the ACH-806-resistant replicon cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Cell Assay [1]	Huh-luc/neo cells are seeded in 96-well plates at a density of 8000 cells per well in a final volume of 200 µL of Dulbecco modified Eagle medium (DMEM) supplemented with 10% fetal bovine serum. One day after seeding, ACH-806 is serially diluted in 100% dimethyl sulfoxide (DMSO) and added to cells at a 1:200 dilution, achieving a final concentration of 0.5% DMSO in a total volume of 200 µL. Cells are further incubated for 3 days (96 h post-seeding), and the inhibition of HCV replicon replication is quantified by measurement of luciferase activity using a commercial kit[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yang W, et al. ACH-806, an NS4A antagonist, inhibits hepatitis C virus replication by altering the composition of viral replication complexes. Antimicrob Agents Chemother. 2013 Jul;57(7):3168-77.

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

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