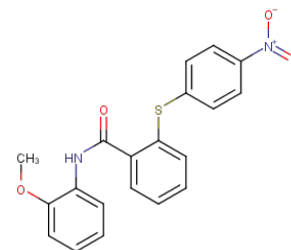


Catalog Number: CM04608

产品信息

Catalog Number:
CM04608CAS号:
431980-38-0分子式:
C₂₀H₁₆N₂O₄S主要靶点:
HIV Protease主要通路:
微生物学|蛋白酶体分子量:
380.42溶解度:
DMSO:97 mg/mL
(254.98mM), Sonification is
recommended.

靶点活性

nonpermissive H9 cell: 6 μM (IC₅₀)

体外活性

RN-18 displays the greater potency (IC₅₀=4.5 μM in CEM cells) and specificity (IC₅₀>100 μM in MT4 cells) among the two compounds. RN-18 and RN-19 show effective antiviral activity in the nonpermissive H9 and CEM cells but not in MT4 or CEM-SS cells, confirming that the antiviral activity was Vif specific. RN-18 also exhibits antiviral activity in CEM-SS modified to stably express A3G but does not exhibit antiviral activity in the parental CEM-SS cell line. RN-18 increases cellular A3G levels in a Vif-dependent manner and increases A3G incorporation into virions without inhibiting general proteasome-mediated protein degradation. RN-18 enhances Vif degradation only in the presence of A3G, reduces viral infectivity by increasing A3G incorporation into virions, and enhances cytidine deamination of the viral genome. Reverse transcriptase activity in the nonpermissive H9 and CEM cells decreases substantially and in a dose-dependent manner in the presence of the inhibitor RN-18. RN-18 antagonizes the Vif function and inhibits HIV-1 replication only in the presence of A3G [1][2].

描述

RN-18 is an inhibitor of HIV-1 viral infectivity factor (IC₅₀: 6 μM in nonpermissive H9 cells).

储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years