

Product Data Sheet

Product Name: (±)-MMT5-14

Cat. No.: GC52224

Chemical Properties

Cas. No. 2719679-31-7

SMILES N#C[C@@]1(C2=CC=C3N2N=CN=C3N)O[C@@H]([C@H]([C@H]1O)O)COP(OC4=CC=CC=C4)(N[C@@H](C)C(OCCCCCCCC/C=C\C/C=C\CCCCC)=O)=O

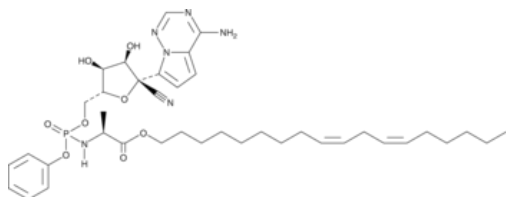
Formula C₃₉H₅₅N₆O₈P M.Wt 766.9

Solubility DMF: 20 mg/mL, DMSO: 16 mg/mL, Ethanol: 16 mg/mL Storage -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

(±)-MMT5-14 is a derivative of remdesivir with antiviral activity.¹ It increases the viability of Vero E6 cells infected with severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2; EC₅₀ = 0.4 μM), as well as Vero E6 cells infected with the Alpha, Beta, Gamma, or Delta SARS-CoV-2 variants (EC₅₀s = 2.5, 15.9, 1.7, and 5.6 μM, respectively). (±)-MMT5-14 exhibits increased plasma and lung concentrations compared with remdesivir in hamsters when administered at a dose of 10 mg/kg.

1. Hu, H., Traore, M.D.M., Li, R., et al. Optimization of the prodrug moiety of remdesivir to improve lung exposure/selectivity and enhance anti-SARS-CoV-2 activity. *J. Med. Chem.* 65(18)12044-12054(2022)

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA