

Product Data Sheet

Product Name: Anti-virus agent 1

Cat. No.: GC60588

Chemical Properties

Cas. No. 1911578-83-0

SMILES N#C[C@@]([C@@H]([C@@H]1O)O)(C2=CC=C3N2N=CN=C3N)O[C@@H]1CO[P@](OC4=CC=CC=C4)(N[C@@H](C)C(OC(C)C)=O)=O

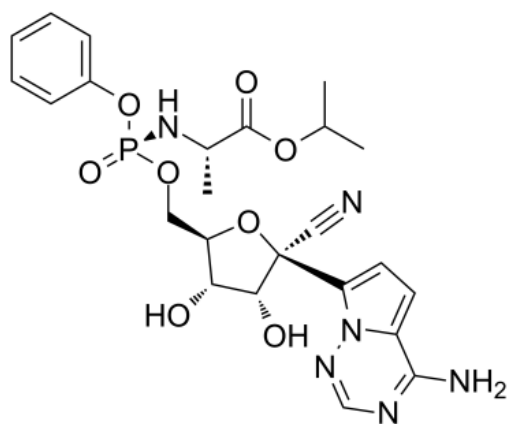
Formula $C_{24}H_{29}N_6O_8P$ M.Wt 560.5

Solubility DMSO: 200 mg/mL (356.82 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

Anti-virus agent 1 (compound 4i), a phosphoramidate prodrug of GS-5734 (Remdesivir), has potent antiviral activity. Anti-virus agent 1 is used for the research of coronavirus and Ebola virus (EBOV)[1][2].

Anti-virus agent 1 (compound 4i) has antiviral activity for EBOV in HeLa cell (EC50=1845 nM), HMVEC cell (TERT-immortalized human foreskin microvascular endothelial cells; ATCC-4025;

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EC₅₀=367 nM), human macrophages (EC₅₀=297 nM). Anti-virus agent 1 has a CC₅₀ of 21 µM in MT4 cell (human leukemia T-cell)[1].

[1]. Dustin Siegel , et al. Discovery and Synthesis of a Phosphoramidate Prodrug of a Pyrrolo[2,1-f] [triazin-4-amino] Adenine C-Nucleoside (GS-5734) for the Treatment of Ebola and Emerging Viruses. J Med Chem. 2017 Mar 9;60(5):1648-1661. [2]. Michael O' Neil Hanrahan Clarke, et al.Methods for treating arenaviridae and coronaviridae virus infections. US20170071964A1.

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