Product Data Sheet

Product Name: GS-443902
Cat. No.: GC39240

Chemical Properties

Cas. No.	1355149-45-9		
SMILES	O=P(OP(O)(O)=O)(O)OP(OC[C@@H](O1)[C@@H](O)[C@@H](O)[C@]1(C#N)C2=CC=C3N2N=CN=C3N)(O)=O		
Formula	$C_{12}H_{16}N_5O_{13}P_3$	M.Wt	531.2
Solubility	Water: 100 mg/mL (188.25 mM)	Storage	Store at -20°C,unstable in solution, ready to use.
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	GS-443902		

Background

GS-443902 (Remdesivir metabolite) is a potent viral RNA-dependent RNA-polymerases (RdRp) inhibitor with IC50s of 5.6 μM, 1.1 μM, 5 μM for TP RdRp, RSV RdRp and HCV RdRp, respectively. GS-443902 is the active triphosphate metabolite of Remdesivir[1][2].

[1]. Siegel D, 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. Med Chem. 2017 Mar 9;60(5):1648-1661. [2]. Cho A, et al. Synthesis and antiviral activity of a series of 1’-substituted 4-aza-7,9-dideazaadenosine C-nucleosides. Bioorg Med Chem Lett. 2012 Apr 15;22(8):2705-7. [3]. Warren TK, et al. Therapeutic efficacy of the small molecule GS-5734 against Ebola virus in rhesus monkeys. Nature. 2016 Mar 17;531(7594):381-5.

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