Product Data Sheet

Product Name: Lagociclovir (MIV-210)
Cat. No.: GC32287

Chemical Properties

Cas. No.	92562-88-4		
SMILES	O=C(N=C(N)N1)C2=C1N([C@@H]3O[C@H](CO)[C@@H](F)C3)C=N2		
Formula	$C_{10}H_{12}FN_5O_3$	M.Wt	269.23
Solubility	Soluble in DMSO	Storage	Store at -20°C
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	Lagociclovir (MIV-210)		

Background

Lagociclovir(MIV-210) is a prodrug of 3'-fluoro-2',3'-dideoxyguanosine with high oral bioavailability in humans and potent activity against HBV. IC50 value:Target: Anti-HBV compoundOral administration of MIV-210 at 20 or 60 mg/kg of body weight/day induced a rapid virological response in chronically infected woodchucks, reducing serum WHV DNA levels by 4.75 log10 and 5.72 log10, respectively, in 2 weeks. Further, a daily dose of 10 mg/kg decreased the serum WHV load 400-fold after 4 weeks of treatment, and a dose of 5 mg/kg/day was sufficient to maintain this antiviral effect during the following 6-week period. MIV-210 at 20 or 60 mg/kg/day reduced the liver WHV DNA load 200- to 2,500-fold from pretreatment levels and, importantly, led to a 2.0 log10 drop in the hepatic content of WHV covalently closed circular DNA.

[1]. Michalak TI, et al. Profound antiviral effect of oral administration of MIV-210 on chronic hepadnaviral infection in a woodchuck model of hepatitis B. Antimicrob Agents Chemother. 2009 Sep;53(9):3803-14.

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