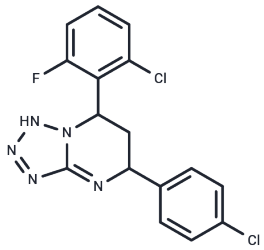
Data Sheet (Cat.No.T27527)

TargetMol

HBF-0259

Chemical Properties



CAS No. : 957011-15-3

Formula: C16H12Cl2FN5

Molecular Weight: 364.2

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	HBF-0259 is an inhibitors of hepatitis B virus surface antigen (HBsAg) secretion with an EC50 of 11.3 μM and a CC50 value of >50 μM in HepG2.2.15 cells. HBF-0259 had a EC50 of approximately 1.5 microM in a secondary, HBV-expressing cell line, with a concentration that exhibited 50% cytotoxicity of >50 microM. The equilibrium concentration of HBF-0259 in aqueous solution at physiological pH was 15 to 16 microM; the selective index was thus >9.
Targets(IC50)	Antiviral,HBV

Solubility Information

Solubility	DMSO: 98 mg/mL (269.08 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (9.06 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7457 mL	13.7287 mL	27.4574 mL
5 mM	0.5491 mL	2.7457 mL	5.4915 mL
10 mM	0.2746 mL	1.3729 mL	2.7457 mL
50 mM	0.0549 mL	0.2746 mL	0.5491 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yu W, Goddard C, Clearfield E, Mills C, Xiao T, Guo H, Morrey JD, Motter NE, Zhao K, Block TM, Cuconati A, Xu X. Design, synthesis, and biological evaluation of triazolo-pyrimidine derivatives as novel inhibitors of hepatitis B virus surface antigen (HBsAg) secretion. J Med Chem. 2011 Aug 25;54(16):5660-70. doi: 10.1021/jm200696v. Epub 2011 Aug 2. PubMed PMID: 21786803; PubMed Central PMCID: PMC3158247.

Dougherty AM, Guo H, Westby G, Liu Y, Simsek E, Guo JT, Mehta A, Norton P, Gu B, Block T, Cuconati A. A substituted tetrahydro-tetrazolo-pyrimidine is a specific and novel inhibitor of hepatitis B virus surface antigen secretion. Antimicrob Agents Chemother. 2007 Dec;51(12):4427-37. Epub 2007 Sep 17. PubMed PMID: 17875990; PubMed Central PMCID: PMC2167973.