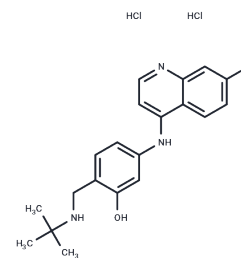


GSK369796 Dihydrochloride

Chemical Properties

CAS No. :	1010411-21-8
Formula:	C ₂₀ H ₂₄ Cl ₃ N ₃ O
Molecular Weight:	428.78
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	GSK369796 Dihydrochloride (N-tert-butylisoquine), is an anti-malaria drug candidate. is an affordable and effective antimalarial and inhibits hERG potassium ion channel repolarization (IC ₅₀ of 7.5 μM)
Targets (IC ₅₀)	Parasite, Potassium Channel
In vitro	Analysis of antiviral activities indicated that GSK369796 has high anti-DENV activity in the DENV2 replicon expressing cells with EC ₅₀ values of 5.06 ± 0.86 μM. The infectivity assays revealed the EC ₅₀ values of 3.03 ± 0.35 μM. The mode of action of this compound is through inhibition of autophagy, thereby affecting DENV2 replication. Moreover, this compounds also showed antiviral activity against the rapidly emerging Zika virus (ZIKV) with EC ₅₀ values of 2.57 ± 0.09 μM (GSK369796)[1].

Solubility Information

Solubility	DMSO: 75 mg/mL (174.91 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: 2 mg/mL (4.66 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3322 mL	11.661 mL	23.322 mL
5 mM	0.4664 mL	2.3322 mL	4.6644 mL
10 mM	0.2332 mL	1.1661 mL	2.3322 mL
50 mM	0.0466 mL	0.2332 mL	0.4664 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

Balasubramanian A , Teramoto T , Kulkarni A A , et al. Antiviral activities of selected antimalarials against dengue virus type 2 and Zika virus[J]. Antiviral research, 2016, 137:141-150.

Candidate selection and preclinical evaluation of N-tert-butyl isoquine (GSK369796), an affordable and effective 4-aminoquinoline antimalarial for the 21st century.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481