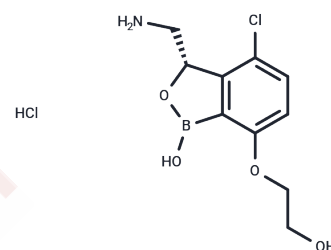


Ganfeborole HCl

Chemical Properties

CAS No. :	2131798-13-3
Formula:	C ₁₀ H ₁₄ Cl ₂ N ₂ O ₄
Molecular Weight:	293.94
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Ganfeborole HCl (GSK3036656 HCl) is a small molecule compound with anti-tuberculosis activity and is an inhibitor of Mycobacterium tuberculosis (Mtb) leucyl-tRNA synthetase (LeuRS; IC ₅₀ : 0.2 μM).
Targets(IC ₅₀)	Antibacterial
In vitro	GSK3036656 shows potent inhibition of Mtb LeuRS (IC ₅₀ = 0.20 μM) and in vitro antitubercular activity (Mtb H37Rv MIC = 0.08 μM). Additionally, it is highly selective for the Mtb LeuRS enzyme with IC ₅₀ of >300 μM and 132 μM for human mitochondrial LeuRS and human cytoplasmic LeuRS, respectively[1].
In vivo	GSK3036656 (0.4 mg/kg) demonstrated significant pharmacokinetic properties and efficacy against Mtb in a mouse TB infection model[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (170.1 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: 2.5 mg/mL (8.51 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	3.4021 mL	17.0103 mL	34.0205 mL
5 mM	0.6804 mL	3.4021 mL	6.8041 mL
10 mM	0.3402 mL	1.701 mL	3.4021 mL
50 mM	0.068 mL	0.3402 mL	0.6804 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

Li X, et al. Discovery of a Potent and Specific M. tuberculosis Leucyl-tRNA Synthetase Inhibitor: (S)-3-(Aminomethyl)-4-chloro-7-(2-hydroxyethoxy)benzo[c][1,2]oxaborol-1(3H)-ol (GSK656). J Med Chem. 2017 Oct 12; 60(19):8011-8026.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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