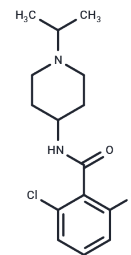


CBS1117

Chemical Properties

CAS No. : 959245-08-0
Formula: C₁₅H₂₀Cl₂N₂O
Molecular Weight: 315.24
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	CBS1117 is a virus entry inhibitor with an IC ₅₀ of 70 nM for influenza A virus, A/Puerto Rico/8/34 (H1N1). It interferes with the hemagglutinin (HA)-mediated fusion process.
Targets(IC ₅₀)	Influenza Virus
In vitro	CBS1117 which has a 50% inhibitory concentration of 70 nM and a selectivity index of ~4000 against A/Puerto Rico/8/34 (H1N1) infection in human lung epithelial cell line (A549).

Solubility Information

Solubility	DMSO: 13 mg/mL (41.24 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 (6.34 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	3.1722 mL	15.8609 mL	31.7219 mL
5 mM	0.6344 mL	3.1722 mL	6.3444 mL
10 mM	0.3172 mL	1.5861 mL	3.1722 mL
50 mM	0.0634 mL	0.3172 mL	0.6344 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

Hussein AFA, et al. Identification of entry inhibitors with 4-aminopiperidine scaffold targeting group 1 influenza A virus. *Antiviral Res.* 2020 May;177:104782.

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