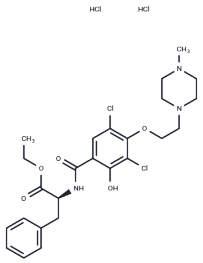
Data Sheet (Cat.No.T27695)

JTE-607

Chemical Properties



CAS No. : 188791-09-5

Formula: C25H33Cl4N3O5

Molecular Weight: 597.36

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	JTE-607 is a cytokine production inhibitor. JTE-607 induces apoptosis accompanied by an increase in p21waf1/cip1 in acute myelogenous leukemia cells.
Targets(IC50)	Cysteine Protease,Interleukin

Solubility Information

Solubility	DMSO: 250 mg/mL (418.51 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 (3.35 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	1.674 mL	8.3702 mL	16.7403 mL
5 mM	0.3348 mL	1.674 mL	3.3481 mL
10 mM	0.1674 mL	0.837 mL	1.674 mL
50 mM	0.0335 mL	0.1674 mL	0.3348 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

Borozdenkova S, Mant TG, Allen E, Pu K, Hoshino S, Jurcevic S. Effects of a cytokine inhibitor, JTE-607, on the response to endotoxin in healthy human volunteers. Int Immunopharmacol. 2011 Nov;11(11):1837-43. doi: 10.1016/j.intimp.2011.07.013.

Tajima N, Fukui K, Uesato N, Maruhashi J, Yoshida T, Watanabe Y, Tojo A. JTE-607, a multiple cytokine production inhibitor, induces apoptosis accompanied by an increase in p21waf1/cip1 in acute myelogenous leukemia cells. Cancer Sci. 2010 Mar;101(3):774-81. doi: 10.1111/j.1349-7006.2009.01446.x.

Asaga T, Ueki M, Chujo K, Taie S. JTE-607, an inflammatory cytokine synthesis inhibitor, attenuates ischemia/reperfusion-induced renal injury by reducing neutrophil activation in rats. J Biosci Bioeng. 2008 Jul;106 (1):22-6. doi: 10.1263/jbb.106.22.

Uesato N, Fukui K, Maruhashi J, Tojo A, Tajima N. JTE-607, a multiple cytokine production inhibitor, ameliorates disease in a SCID mouse xenograft acute myeloid leukemia model. Exp Hematol. 2006 Oct;34(10):1385-92.