

# Certificate of Analysis

**Product Name:** JTE 607 dihydrochloride

**Catalog No.:** 5185

**Batch No.:** 1

CAS Number: 188791-09-5

IUPAC Name: *N*-[3,5-Dichloro-2-hydroxy-4-[2-(4-methyl-1-piperazinyl)ethoxy]benzoyl]-L-phenylalanine ethyl ester dihydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>25</sub>H<sub>31</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>5</sub>·2HCl·H<sub>2</sub>O

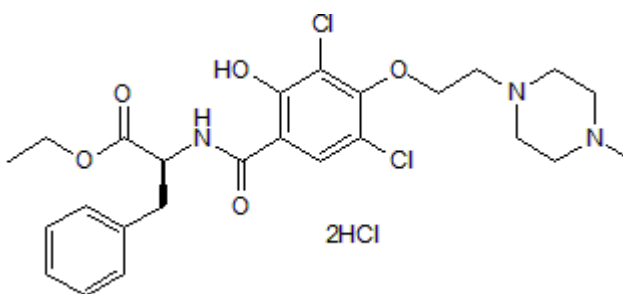
**Batch Molecular Weight:** 615.38

**Physical Appearance:** Off White solid

**Solubility:** water to 100 mM  
DMSO to 100 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.1 (Dichloromethane:Methanol [98:2])

**HPLC:** Shows 98.4% purity

**Chiral HPLC:** Shows 100% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

Carbon Hydrogen Nitrogen

Theoretical 48.8 5.73 6.83

Found 48.62 5.72 6.78

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**Description:**

Cytokine release inhibitor. Inhibits production of IL-1 $\beta$ , IL-8, IL-6, IL-10 and TNF $\alpha$  (IC<sub>50</sub> values are 5.9, 7.3, 8.8, 9.1 and 11.0 nM, respectively) from LPS-stimulated PBMCs. Reduces proinflammatory cytokine-release and attenuates lung permeability in a rat lung injury model. Induces apoptosis in leukemia cells in vitro and prolongs survival in a mouse leukemia model.

**Physical and Chemical Properties:**

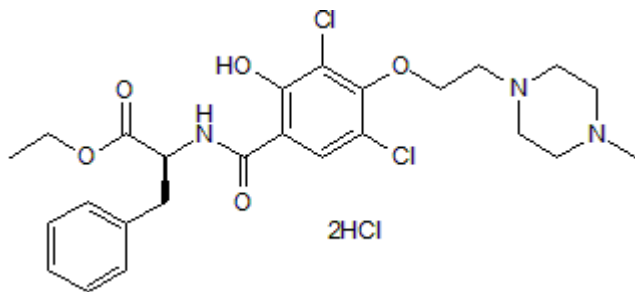
Batch Molecular Formula: C<sub>25</sub>H<sub>31</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>5</sub>.2HCl.H<sub>2</sub>O

Batch Molecular Weight: 615.38

Physical Appearance: Off White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 100 mM  
DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Kakutani et al** (1999) JTE-607, a novel inflammatory cytokine synthesis inhibitor without immunosuppression, protects from endotoxin shock in mice. *Inflamm.Res.* **48** 461. PMID: 10493164.

**Jian** (2004) JTE-607, a cytokine release blocker, attenuates acid aspiration-induced lung injury in rats. *Eur.J.Pharmacol.* **488** 231. PMID: 15044056.

**Tajima et al** (2010) JTE-607, a multiple cytokine production inhibitor, induces apoptosis accompanied by an increase in p21waf1/cip1 in acute myelogenous leukemia cells. *Cancer Sci.* **101** 774. PMID: 20028380.

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