

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: C₂₅H₃₁Cl₂N₃O₅·2HCl·H₂O

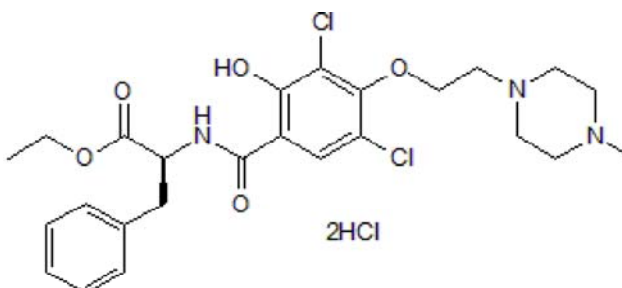
Batch Molecular Weight: 615.38

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_f = 0.1 (Dichloromethane:Methanol [98:2])

HPLC: Shows 98.4% purity

Chiral HPLC: Shows 100% purity

¹H 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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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

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Description:

JTE 607 is a pro-drug that is cleaved by carboxylesterase 1 (CES1) to its active metabolite, which then binds to cleavage and polyadenylation specificity factor 3 (CPSF3; $K_d = 370$ nM at human CPSF3). Treatment of A-673 cells with JTE 607 results in inhibition of mRNA cleavage and accumulation of nuclear R-loops. JTE 607 induces apoptosis in leukemia cells in vitro and prolongs survival in a mouse leukemia model. JTE 607 also inhibits cytokine release; it inhibits production of IL-1 β , IL-8, IL-6, IL-10 and TNF α (IC_{50} values are 5.9, 7.3, 8.8, 9.1 and 11.0 nM, respectively) from LPS-stimulated PBMCs. In a rat model of lung injury... Please see product datasheet on www.tocris.com for full description.

Physical and Chemical Properties:

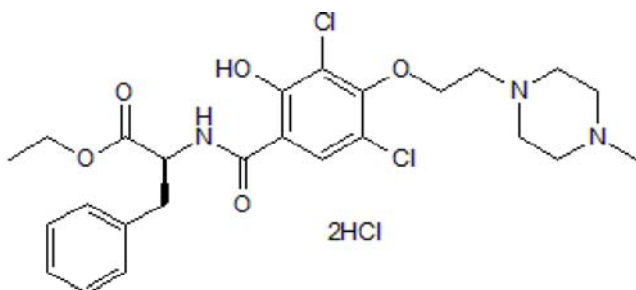
Batch Molecular Formula: C₂₅H₃₁Cl₂N₃O₅·2HCl·H₂O

Batch Molecular Weight: 615.38

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Ross et al (2020) CPSF3-dependent pre-mRNA processing as a druggable node in AML and Ewing's sarcoma. *Nat.Chem.Biol.* **16** 50. PMID: 31819276.

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.

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

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.

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