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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



JTE-607

Item No. 36942

CAS Registry No.: 188791-09-5
Formal Name: N-[3,5-dichloro-2-hydroxy-4-[2-(4-methyl-1-piperazinyl)ethoxy]benzoyl]-L-phenylalanine, ethyl ester, dihydrochloride

MF: C₂₅H₃₁Cl₂N₃O₅ • 2HCl

FW: 597.4

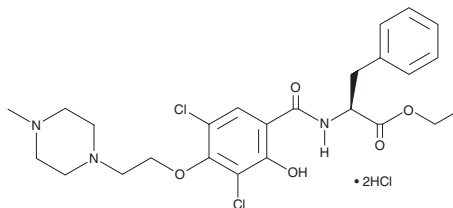
Purity: ≥98%

UV/Vis.: λ_{max}: 216 nm

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

JTE-607 is supplied as a solid. A stock solution may be made by dissolving the JTE-607 in the solvent of choice, which should be purged with an inert gas. JTE-607 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of JTE-607 in these solvents is 2 and 5 mg/ml, respectively.

Description

JTE-607 is an inhibitor of inflammatory cytokine synthesis.¹ It inhibits the production of TNF-α, IL-1β, IL-6, IL-8, and IL-10 in LPS-stimulated isolated human peripheral blood mononuclear cells (PBMCs; IC₅₀s = 11, 5.9, 8.8, 7.3 and 9.1 nM, respectively). JTE-607 binds to cleavage and polyadenylation-specific factor 3 (CPSF3), an enzyme involved in 3'-end processing of pre-mRNA, in cell-free assays and induces accumulation of CXCL8 pre-mRNA in LPS-stimulated SC cells.² *In vivo*, JTE-607 (0.3-10 mg/kg, i.v.) reduces LPS-induced mortality in a *C. parvum*-sensitized mouse model of endotoxic shock.¹

References

1. Kakutani, M., Takeuchi, K., Waga, I., *et al.* JTE-607, a novel inflammatory cytokine synthesis inhibitor without immunosuppression, protects from endotoxin shock in mice. *Inflamm. Res.* **48**(8), 461-468 (1999).
2. Kakegawa, J., Sakane, N., Suzuki, K., *et al.* JTE-607, a multiple cytokine production inhibitor, targets CPSF3 and inhibits pre-mRNA processing. *Biochem. Biophys. Res. Commun.* **518**(1), 32-37 (2019).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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