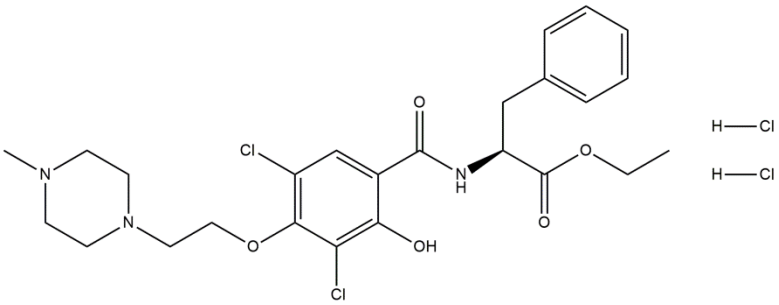
JTE-607

07/20

ALTERNATE NAMES: ethyl (2S)-2-[[3,5-dichloro-2-hydroxy-4-[2-(4-methylpiperazin-1-yl)ethoxy]benzoyl]amino]-3-phenylpropanoate;dihydrochloride; L-Phenylalanine, N-(3,5-dichloro-2-hydroxy-4-(2-(4-methyl-1-piperazinyl)ethoxy)benzoyl)-, ethyl ester, dihydrochloride

CATALOG #:
B3064-5 5 mg
B3064-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{25}H_{33}Cl_4N_3O_5$

MOLECULAR WEIGHT: 597.36

CAS NUMBER: 188791-09-5

APPEARANCE: Off White solid

PURITY: ≥98%

SOLUBILITY: ~25 mg/ml in DMSO

DESCRIPTION: JTE-607 is a multiple cytokine inhibitor. It inhibits cytokine production specifically in human peripheral blood mononuclear cells without causing immunosuppression. It inhibits tumor necrosis factor-α (TNF-α), interleukins IL-1β, IL-6, IL-8 and IL-10 from LPS-stimulated human PBMCs with IC_{50} values of 11 nM, 5.9 nM, 8.8 nM, 7.3 nM and 9.1 nM, respectively. It (0.4-0.8 μM) also inhibits the growth of acute myelogenous leukemia cell lines by inducing apoptosis and cell-cycle arrest.

STORAGE TEMPERATURE: -20ºC. Protect from air. Store under desiccating conditions.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

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. 48(8):461-8 (1999).
2. Tajima, N., Fukui, K., Uesato, N., et al. JTE-607, a multiple cytokine production inhibitor, induces apoptosis accompanied by an increase in p21waf1/cip1 in acute myelogenous leukemia cells. Cancer Sci. 101(3):774-81 (2010).

RELATED PRODUCTS:

R-7050 (Cat. No. B3063)
C87 (Cat. No. B3062)
Demethoxycurcumin (Cat. No. B2945)
Gabexate mesylate (Cat. No. B3058)
(±)-Thalidomide (Cat. No. 2020)

DISCLAIMER: ***FOR RESEARCH USE ONLY! Not to be used on humans.***