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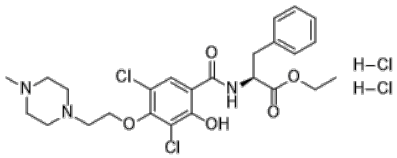
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	JTE-607
Cat. No.	:	PC-72476
CAS No.	:	188791-09-5
Molecular Formula	:	$C_{25}H_{33}Cl_4N_3O_5$
Molecular Weight	:	597.36
Target	:	Other Targets
Solubility	:	10 mM in DMSO



Biological Activity

JTE-607 (JTE607) is a multiple cytokine inhibitor that potently suppresses production of proinflammatory cytokines, targets pre-messenger RNA endonuclease cleavage and polyadenylation specificity factor 3 (**CPSF3**).
JTE-607 exhibits inhibitory activity on the growth of AML cell lines accompanying reduction of the proinflammatory cytokine and growth factor production.
JTE-607 suppressed expression and production of cytokines, which are spontaneously up-regulated in AML cell lines.
JTE-607 also abrogated proliferation of AML cells in a concentration range in which colony formation of normal bone marrow cells was not affected.
JTE-607 significantly prolonged survival in mice and reduced human cytokine mRNA levels in the bone marrow in leukemia model engrafted with U-937 cells.
Inhibition of CPSF3 by JTE-607 alters expression of known downstream effectors in AML and Ewing's sarcoma lines, upregulates apoptosis and causes tumor-selective stasis in mouse xenografts.
JTE-607 induces transcript accumulation and RNA Pol II read-through. CPSF3 is a core component of the pre-mRNA cleavage and polyadenylation complex.

References

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Uesato N, et al. ***Exp Hematol.*** 2006 Oct;34(10):1385-92.

Iwamura H, et al. ***J Pharmacol Exp Ther***. 2004 Dec;311(3):1256-63.

Ross NT, et al. ***Nat Chem Biol.*** 2020 Jan;16(1):50-59.

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