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Product Datasheet

JTE-607, CAS [[188791-09-5]] FBM-10-4842

Artikelname	JTE-607, CAS [[188791-09-5]]
Artikelnummer	FBM-10-4842
Hersteller Artikelnummer	10-4842
Alternativnummer	FBM-10-4842-5MG,FBM-10-4842-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	mRNA processing inhibitor...
Molekulargewicht	597.36
Reinheit	98% by HPLC NMR (Conforms)
Formulierung	White solid
CAS Nummer	[188791-09-5]
Formel	C ₂₅ H ₃₁ Cl ₂ N ₃ O ₅ 2HCl

Anwendungsbeschreibung	JTE-607 inhibits inflammatory cytokine production in human peripheral blood mononuclear cells (PBMCs) without causing immunosuppression: IC50s = 11 nM (TNF-), 5.9 nM (IL-1), 8.8 nM (IL-6), 7.3 nM (IL-8), and 9.1 nM (IL-10).¹ It displayed efficacy in a mouse model of septic shock.² JTE-607 also showed inhibitory activity against acute myelogenous leukemia cell lines.^{3,4} Recently, the mechanism of action of JTE-607 (a pro-drug, with the active species being the free acid) has been found to be inhibition of pre-messenger RNA endonuclease Cleavage and Polyadenylation Specificity Factor 3 (CPSF3).^{5,6} This prevents release of newly synthesized mRNAs resulting in read-through transcription and the formation of DNA-RNA hybrid R-loop structures. Transcripts down-regulated by JTE-607 were related to DNA damage-based phenotype
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