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Product Datasheet

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

Article Name	JTE-607, CAS [[188791-09-5]]
Biozol Catalog Number	FBM-10-4842
Supplier Catalog Number	10-4842
Alternative Catalog Number	FBM-10-4842-5MG, FBM-10-4842-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	mRNA processing inhibitor...
Molecular Weight	597.36
Purity	98% by HPLC NMR (Conforms)
Form	White solid
CAS Number	[188791-09-5]
Formula	C25H31Cl2N3O52HCl

Application Notes	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