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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 <sub>25</sub> H <sub>31</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>5</sub> 2HCl

Anwendungsbeschreibung	<p>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).<sup>1</sup> It displayed efficacy in a mouse model of septic shock.<sup>2</sup> JTE-607 also showed inhibitory activity against acute myelogenous leukemia cell lines.<sup>3,4</sup> 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).<sup>5,6</sup> 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</p>
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