Product Data Sheet

Product Name: PU139
Cat. No.: GC63405

Chemical Properties

Cas. No.	158093-65-3		
Formula	$C_{12}H_7FN_2OS$	M.Wt	246.26
Solubility	DMSO : 12.5 mg/mL (50.76 mM; ultrasonic and warming and heat to 60°C)	Storage	4°C, away from moisture
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	PU139		

Background

PU139 is a potent pan-histone acetyltransferase (HAT) inhibitor. PU139 blocks the HATs Gcn5, p300/CBP-associated factor (PCAF), CREB (cAMP response element-binding) protein (CBP) and p300 with IC50s of 8.39, 9.74, 2.49 and 5.35 μM, respectively[1][2].

PU139 inhibits cell growth with GI50s of <60 μM (A431, A549, A2780, HepG2, SW480, U-87 MG, HCT116 and SK-N-SH and MCF7 cells)[1].PU139 (0-100 μM; 24-72 hours) triggers caspase-independent cell death in the neuroblastoma cell line SK-N-SH[1].

PU139 (25 mg/kg; i.p.) synergizes with Doxorubicin used as a prototypic chemotherapeutic drug in growth inhibition[1].

[1]. Gajer JM, et al. Histone acetyltransferase inhibitors block neuroblastoma cell growth in vivo. Oncogenesis. 2015;4(2):e137. Published 2015 Feb 9. [2]. Carneiro VC, et al. Epigenetic changes modulate schistosome egg formation and are a novel target for reducing transmission of schistosomiasis. PLoS Pathog. 2014;10(5):e1004116. Published 2014 May 8.

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