

Catalog Number: CM00812

产品信息	Catalog Number: CM00812	分子量: 456.99 ···································
	CAS号:	溶解度:
	分子式:	DMS0:29.41 mg/mL (64.36 MM).Sonification is
	C ₂₃ H ₂₅ ClN ₄ O ₂ S	recommended, Ethanol: 45.7
	主要靶点: Epigenetic Reader Domain Autophagy Ligands for Target Protein for PROTAC	
	主要通路: 表观遗传 PROTAC 自噬	
靶点活性	BRD4 (1):77 nM(cell free) BRD4 (2):33 nM(cell free)	
体外活性	Binding of a tetra-acetylated Histone H4 peptide to BRD4 was strongly inhibited by (+)-JQ1, with IC50 values of 77 nM and 33 nM for the first and second bromodomain, respectively. Compared to vehicle control, JQ1 (500 nM) markedly accelerated time to half fluorescence recovery in photobleached regions of cells transfected with GFP-BRD4-NUT. Treatment of the patient-derived 797 NMC cell line for 48 hours with JQ1 (500 nM) effaces nuclear foci, producing diffuse nuclear NUT staining by IHC [1]. MM cell proliferation was uniformly inhibited by JQ1, including several MM cell lines selected for resistance to FDA-approved agents (dexamethasone-resistant MM.1R and melaphalan-resistant LR5) [2].	
体内活性	A marked reduction in 18F-fluorodeoxyglucc treated animals demonstrated progressive of with JQ1 reduced seminiferous tubule area, levels. Although JQ1-treated males mate no stages cause a complete and reversible cont (twice a day at 30 mg/kg or once a day at 50 average tumor volume was 45% smaller in	ose (FDG) uptake was observed with JQ1 treatment (50 mg/kg), whereas vehicle- lisease. A reduction in tumor growth with JQ1 treatment [1]. Treatment of mice testis size, and spermatozoa number and motility without affecting hormone brmally, inhibitory effects of JQ1 evident at the spermatocyte and round spermatid raceptive effect [3]. Raji BL tumors grew significantly slower in (+)-JQ1-treated mg/kg, i.p.) mice compared with vehicle-treated controls. In this model, the the compound-treated group at day 14[4].
动物实验	(Harlan) inoculated s.c. with 3 × 10^6 c tumor volume 150 mm3), mice were as (5:95 DMSO:10% 2-Hydroxypropyl- β - injection twice a day for 28 d. Body we calculated from caliper measurements when tumor volume reached 2,000 mr mice were in poor health as establishe Prism software, and statistical signific Breslow-Wilcoxon tests. MV4-11 xeno mouse. JQ1 was dosed i.p. and formula vehicle control once a day; 50 mg/kg (- mg/kg daily (5 d on, 2 d off). Treatment loss at day 8 and, therefore, the dose n	ells per mouse resuspended in 10% Matrigel. Two weeks later (average ssigned into two groups: 15 mice were treated with vehicle control cyclodextrin), and 15 mice were treated with 30 mg/kg (+)-JQ1 by i.p. ight and tumor volume were measured daily. Tumor volume was s by using the following formula: W × H × L × 0.52. Mice were killed n3, when body weight decreased >20% of initial weight, or when the ed in the IACUC protocol. Survival was plotted and analyzed in GraphPad ance was calculated by using log-rank (Mantel-Cox) and Gehan-grafts were established in nude mice injected with 10 × 10^6 cells per ted as described above. Mice were divided into 4 groups of 10 animals: +)-JQ1 once a day; 30 mg/kg (+)-JQ1 twice a day; and cytarabine 100 of mice with cytarabine at 100 mg/kg resulted in significant weight weeded to be decreased to 75 mg/kg [4].
细胞实验	Cells were plated at 5,000 cells per we indicated. After incubation, the cells w ethanol and fixed for a minimum of 16 for 30 min at room temperature (RT) w (25 μ g/mL), 0.1% Triton X-100 in PBS] cytometer using the Express Pro modu Software. To calculate the number of v the Guava was multiplied by the volum values for each cell line were calculate number relative to the DMSO control [4]	ell of 96-well plates containing titrations of the compounds as vere washed once with PBS and resuspended in 175 μ L of ice-cold 70% h at 4 °C. The cells were pelleted and washed 1× with PBS and stained ith 120 μ L of staining solution [propidium iodide (20 μ g/mL), RNase A . Cell number and cell cycle data were obtained by using a flow ule. DNA content histograms were analyzed by using ModFit LT 3.2 iable cells in each well, the concentration of events measured using the of cells in the well, then by the fraction of cells in G1+S+G2/M. GI50 ed as the concentration of compound giving a 50% reduction in cell 4].
描述	(+)-JQ1 is a BET bromodomain inhibitor (IC5	50: 77 nM/33 nM for BRD4 (1/2)).
储存	Powder: -20°C for 3 years In solvent: -	80°C for 2 years