For Research Use Only Talazoparib



Catalog Number: CM05748

产品信息	Catalog Number: CM05748 CAS号: 1207456-01-6 分子式: C ₁₉ H ₁₄ F ₂ N ₆ O 主要靶点: PARP 主要通路: DNA损伤和修复 表观遗传	分子量: 380.35 溶解度: Ethanol:<1 mg/mL,H2O:<1 mg/mL,DMSO:36 mg/mL (94.6 mM)	NH NH CH3 N N
靶点活性	PARP2:0.87 nM (Ki, cell free) PARP1:1.2 nM (I	(i, cell free)	
体外活性	Talazoparib (BMN 673) demonstrates excell nM, respectively. It inhibits PARP-mediated proliferation of cancer cells carrying mutant 673 is a potent PARP1/2 inhibitor (PARP1 IC 673 selectively targeted tumor cells with BR than existing PARP1/2 inhibitors [2].	ent potency, inhibiting PARP1 and PARP2 enzyme PARylation in a whole-cell assay with an EC50 of BRCA1/2, with EC50 = 0.3 nM (MX-1) and 5 nM (Ca 50 = 0.57 nmol/L), but it does not inhibit other enz ICA1, BRCA2, or PTEN gene defects with 20- to mo	activity with Ki = 1.2 and 0.87 2.51 nM and prevents the apan-1), respectively [1]. BMN ymes that we have tested. BMN re than 200-fold greater potency
体内活性	Talazoparib is orally available, displaying f the BRCA1 mutant MX-1 breast cancer xenog chemotherapy agents such as temozolomid activity in vivo; xenografted tumors that car profoundly sensitive to oral BMN 673 treatm also found when BMN 673 was combined wi	avorable pharmacokinetic (PK) properties and ren graft model following oral administration as a sing and cisplatin [1]. Oral administration of BMN 67 ry defects in DNA repair due to BRCA mutations or ent at well-tolerated doses in mice. Synergistic o th temozolomide, SN38, or platinum drugs [2].	narkable antitumor efficacy in gle agent or in combination with 3 elicited remarkable antitumor r PTEN deficiency were r additive antitumor effects were
动物实验	Female athymic nu/nu mice (8–10-wey quarantined for at least 1 week before MDA-MB-468) or in vivo passaged tum of nude mice. When tumors reached a into various treatment groups (6–8 mi were measured twice weekly by callip [width^2]. Group median tumor volum agent studies, olaparib (100 mg/kg), Bl and 84% PBS) was administered by or 28 consecutive days. Mice were contir combination study, BMN 673, olaparib, 1. Cisplatin at a dosage of 6 mg/kg or if injection on day 3, 30 minutes after PA conducted in a similar way in MX-1 mo days or 5 days and carboplatin was inje BMN 673 on day 3 [2].	ek old) were used for all in vivo xenograft si experimental manipulation. Exponentially or fragments (MX-1) were implanted subcu n average volume of approximately 150 mn ce/group) in each study. Mice were visually er to determine tumor volume using the fo e (mm^3) was graphed over time to monito MN 673 (various doses as indicated), or vehi al gavage (per os), once daily or BMN 673 (0. nuously monitored for 10 more days after la or vehicle was administered per os once d ts vehicle (saline) was administered intrape RP inhibitor was administered. Combinatic del in which BMN 673 was administered pe ected intraperitoneally at single dose of 35	tudies. Mice were growing cells (LNcap and taneously at the right flank n ⁴ 3, mice were randomized observed daily and tumors ormula [length/2] × or tumor growth. In single- icle (10% DMAc, 6% Solutol, 165 mg/kg) twice daily for ast day of dosing. In cisplatin aily for 8 days starting on day eritoneally as a single on with carboplatin was r os once daily for either 8 mg/kg, 30 minutes after
细胞实验	Colony formation assays were conduc plates at a concentration of 500 to 2,0 containing PARP1/2 inhibitor. This pro were fixed with TCA and stained with s calculated by normalizing colony coun plotted using a four-parameter logisti	ted as described previously. In brief, cells v 00 cells per well. After 24 hours, media was cedure was repeated twice weekly for 14 d sulforhodamine B. Colonies were counted a ts to colony numbers in vehicle-treated we ic regression curve fit [2].	vere seeded into 6-well replaced with fresh media lays, at which point colonies and surviving fractions ells. Survival curves were
描述	Talazoparib is a new-type PARP inhibitor (IC	50: 0.58 nM), It similarly binds to PARP1/2 (Kis: 1.	2/0.85 nM).
储存	Powder: -20°C for 3 years In solvent: ·	80°C for 2 years	

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