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产品名称: **RX-3117**

产品别名: 氟环戊烯基胞嘧啶; **TV-1360; fluorocyclopentenylcytosine**

生物活性:				
Description	RX-3117(TV-1360; Fluorocyclopentenylcytosine) is novel a cytidine analog; shows anticancer activity in several cancer cell lines, including gemcitabine-resistant variants. IC50 value: 0.4- >30 nM (15 cancer cell lines) [1] Target: cytidine analog in vitro: RX-3117 showed a different sensitivity profile compared to cyclopentenyl-cytosine (CPEC) and azacytidine, substrates for uridine-cytidine-kinase (UCK).RX-3117 was a very poor substrate for cytidine deaminase (66,000-fold less than gemcitabine). In sensitive U937 cells 1 μM RX-3117 resulted in 90% inhibition of RNA synthesis but 100 μM RX-3117 was required in A2780 and CCRF-CEM cells. RX-3117 at IC50 values did not affect the integrity of RNA [1]. in vivo: Orally-administered RX-3117 was examined in 9 different human tumor xenograft models (colon, non-small cell lung, small cell lung, pancreatic, renal and cervical), grown subcutaneously in athymic nude mice. In the Colo 205, H460, H69 and CaSki models, gemcitabine treatment resulted in 28%, 30%, 25% and 0% tumor growth inhibition (TGI), respectively, whereas oral treatment with RX-3117 induced 100%, 78%, 62% and 66% TGI, respectively [2].			
Solvent&Solubility	In Vitro: DMSO : ≥ 50 mg/mL (194.39 mM) * "≥" means soluble, but saturation unknown.			
	Preparing Stock Solutions	<div>Solvent / Mass / Concentration</div>	1 mg	5 mg
		1 mM	3.8877 mL	19.4386 mL
		5 mM	0.7775 mL	3.8877 mL
		10 mM	0.3888 mL	1.9439 mL
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80℃, 6 months; -20℃, 1 month。 -80℃ 储存时, 请在 6 个月内使用, -20℃ 储存时, 请在 1 个月内使用。			
References	[1]. Peters GJ, et al. Metabolism, mechanism of action and sensitivity profile of fluorocyclopentenylcytosine (RX-3117; TV-1360). Invest New Drugs. 2013 Dec;31(6):1444-57. [2]. Yang MY, et al. A novel cytidine analog, RX-3117, shows potent efficacy in xenograft models, even in tumors that are resistant to gemcitabine. Anticancer Res. 2014 Dec;34(12):6951-9.			