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产品名称: **7-(Diethylamino)-2-Oxo-2H-Chromene-3-Carboxylic Acid**
产品别名: **7ACC1; 香豆素 D1421; DEAC; Coumarin D 1421; D 1421**

生物活性:					
Description	7ACC1(DEAC; Coumarin D 1421; D 1421) selectively interfere with lactate fluxes in the lactate-rich tumor microenvironment; inhibits lactate influx but not efflux in tumor cells expressing MCT1 and MCT4 transporters. IC50 value: 0.86 uM(Lactate uptake inhibition) [1] Target: MCT inhibitor; lactate transport inhibitor Contrary to the reference MCT1 inhibitor AR-C155858, 7ACC unexpectedly inhibited lactate influx but not efflux in tumor cells expressing MCT1 and MCT4 transporters. 7ACC delayed the growth of cervix SiHa tumors, colorectal HCT116 tumors, and orthotopic MCF-7 breast tumors. MCT target engagement was confirmed by the lack of activity of 7ACC on bladder UM-UC-3 carcinoma that does not express functional MCT. 7ACC also inhibited SiHa tumor relapse after treatment with cisplatin. Finally, we found that contrary to AR-C155858, 7ACC did not prevent the cell entry of the substrate-mimetic drug 3-bromopyruvate (3BP) through MCT1, and contributed to the inhibition of tumor relapse after 3BP treatment.				
Solvent&Solubility	In Vitro: DMSO : 32 mg/mL (122.48 mM; Need ultrasonic and warming)				
	<div>Preparing</div> <div>Stock Solutions</div>	<div>Solvent</div> <div>Mass</div> <div>Concentration</div>	1 mg	5 mg	10 mg
		1 mM	3.8275 mL	19.1373 mL	38.2746 mL
		5 mM	0.7655 mL	3.8275 mL	7.6549 mL
		10 mM	0.3827 mL	1.9137 mL	3.8275 mL
<p>*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。</p> <p>储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month (protect from light)。-80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。</p>					
References	[1]. Draoui N, et al. Antitumor activity of 7-aminocarboxycoumarin derivatives, a new class of potent inhibitors of lactate influx but not efflux. Mol Cancer Ther. 2014 Jun;13(6):1410-8.				