Product Data Sheet

Product Name: 673 A
Cat. No.: GC50613

Chemical Properties

Cas. No.	109437-62-9		
SMILES	O=CC1=CC=C(N2CC3=C(C=CC=C3)C2)C=C1		
Formula	$C_{15}H_{13}NO$	M.Wt	223.28
Solubility	Soluble in DMSO	Storage	Store at -20°C
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	673 A		

Background

Aldehyde dehydrogenase (ALDH1A) inhibitor (IC50 values are 230, 246 and 348 nM for ALDH1A2, ALDH1A1 and ALDH1A3, respectively). Exhibits >40-fold selectivity for ALD1A over ALDH2. Depletes CD133+ cancer stem cells (CSC) in ovarian cancer cell lines. Triggers necroptosis in ovarian CSCs and induces expression of mitochondrial uncoupling proteins (UCP). Overcomes chemotherapy resistance in vivo.

Chefetz et al (2019) A pan-ALDH1A inhibitor induces necroptosis in ovarian cancer stem-like cells. Cell Rep. 26 3061 PMID:30865894 |Raghavan et al (2017) Personalized medicine-based approach to model patterns of chemoresistance and tumor recurrence using ovarian cancer stem cell spheroids. Clin.Cancer Res. 23 6934 PMID:28814433

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