Product Data Sheet

Product Name: Ipivivint
Cat. No.: GC63023

Chemical Properties

Cas. No.	1481617-15-5		
Formula	$C_{26}H_{21}FN_8$	M.Wt	464.5
Solubility		Storage	
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	Ipivivint		

Background

Ipivivint, a first-in-class, orally active and potent CDC-like kinase (CLK) inhibitor, inhibits CLK1 (IC50=1.4 μM), CLK2 (IC50=0.002 μM) and CLK3 (IC50=0.022 μM). Ipivivint reduces Wnt pathway signaling gene expression through inhibiting CLK activity and serine and arginine rich splicing factor (SRSF) phosphorylation and disrupting spliceosome activity. Ipivivint can be used for the research of cancer[1].

Ipivivint (SW480 cells; 0.01~10 μM; 1 hour) potently inhibits SRSF5/6 phosphorylation[1].Ipivivint (SW480 cells; 0.03 μM~3 μM; 48 hour) induced apoptosis[1]..Ipivivint (HEK-293T cells; 0.03 μM~3 μM; 1 hour) inhibits Wnt/β-catenin signaling induced by Wnt3a[1].Ipivivint (SW480 cells; 0.3~10 μM; 6 hour) increases nuclear speckle enlargement[1].Ipivivint (SW480 cells; 0.3~3μM; 24hours) significantly decreases expression of Wnt target genes (AXIN2, LEF1, MYC, and TCF7) and TCF7L2. SM08502 (SW480 cells; 0.03~3μM; 24hours) inhibits cytoplasmic or nuclear fractions protein expression. Ipivivint (NCI-N87 cells) inhibits proliferation[1].Ipivivint strongly inhibits Wnt pathway signaling activity (EC50 = 0.046 μM) in SW480 colon cancer cells[1].

Ipivivint (25 mg/kg; p.o.) potently inhibits tumor SRSF6 phosphorylation[1].

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[1]. Tam BY, et al. The CLK inhibitor SM08502 induces anti-tumor activity and reduces Wnt pathway gene expression in gastrointestinal cancer models. Cancer Lett. 2020;473:186-197.

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