

Product Name: Salinomycin Revision Date: 07/30/2024

# Product Data Sheet

# Salinomycin

Cat. No.:	A3785 2010C
CAS No.:	53003-10-4
Formula:	C42H70O11
M.Wt:	751
Synonyms:	Procoxacin
Target:	Stem Cell
Pathway:	Wnt/β-catenin
Storage:	Store at -20°C
	Bieton

## Solvent & Solubility

2	insoluble in H2O; ≥	142.2 mg/mL in EtOH; ≥91.8 r	ng/mL in DMSO	Active"	
	Preparing	Solvent Concentration	1mg	5mg	10mg
	Stock Solutions	1 mM	1.3316 mL	6.6578 mL	13.3156 mL
	E Blog	5 mM	0.2663 mL	1.3316 mL	2.6631 mL
		10 mM	0.1332 mL	0.6658 mL	1.3316 mL

Please refer to the solubility information to select the appropriate solvent.

### **Biological Activity**

Shortsummary

Polyether ionophore antibiotic;anti-cancer

#### IC50 & Target

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	Cell Viability Assay	Capeen
	Cell Line: 1900 500	HCC cell lines HepG2, SMMC-7721 and BEL-7402
	Preparation method:	The solubility of this compound in DMSO is <1.9mg/mL. General tips for
In Vitro		obtaining a higher concentration: Please warm the tube at 37 $^\circ\text{C}$ for 10 minutes
		and/or shake it in the ultrasonic bath for a while. Stock solution can be stored
		below - 20 °C for several months.
	Reacting conditions:	0 ~ 25 μM

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	Applications:	In HCC cells, Salinomycin inhibited cell proliferation, down-regulated PCNA				
		level as well as decreased the proportion of HCC CD133+ cell subpopulations.				
		Salinomycin also induced cell cycle arrest and apoptosis. Compared to the				
		control group, Salinomycin significantly down-regulated $\beta$ -catenin expression,				
	B	and increased intracellular Ca2+ concentrations.				
	Animal experiment	C Entrance				
Animal models: Dosage form: Applications: In Vivo	Animal models:	Nude mice bearing HepG2 cells				
	Dosage form:	4 and 8 mg/kg; i.p.; q.d., for 6 weeks				
	Applications:	In nude mice bearing HepG2 cells, Salinomycin reduced the size of liver				
		tumors. The results of immunohistochemistry and TUNEL staining also showed				
		that Salinomycin inhibited cell proliferation and induced apoptosis in vivo.				
		Further study implied that the anti-tumor effects of Salinomycin were achieved				
		by increasing intracellular Ca2+ levels, and subsequently inhibiting				
		Wnt/β-catenin signaling.				
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility n				
	Recton Ender	slightly differ with the theoretical value. This is caused by an experimental				
	Autor par	system error and it is normal.				

### **Product Citations**

See more customer validations on www.apexbt.com.





[1]. Wang F,He L,Dai WQ,Xu YP,Wu D,Lin CL,Wu SM,Cheng P,Zhang Y,Shen M,Wang CF,Lu J,Zhou YQ,Xu XF,Xu L,Guo CY. Salinomycin inhibits proliferation and induces apoptosis of human hepatocellular carcinoma cells in vitro and in vivo. PLoS One.2012;7(12):e50638.

### Caution

FOR RESEARCH PURPOSES ONLY.



#### NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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