Salinomycin (Procoxacin)

Kinase Inhibitor

E1K S2352

Kinase Inhibitor Name: Salinomycin (Procoxacin)

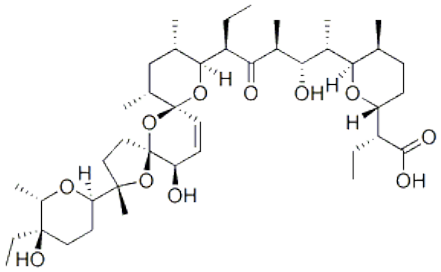
Catalog Number: E1KS2352

Quantity: 5mg

1. PHYSICAL AND CHEMICAL PROPERTIES

M.Wt:	751.00
Formula:	$C_{42}H_{70}O_{11}$
Solubility:	DMSO <1 mg/mL Water <1 mg/mL Ethanol <1 mg/mL
Stability:	2 years -20℃ Powder
	1 week -4℃ in DMSO
	1 month -80℃ in DMSO
CAS No.:	53003-10-4

Molecular Structure:



2. Biological Activity

Salinomycin (Procoxacin) is an antibacterial and coccidiostat ionophore therapeutic agent. Salinomycin (Procoxacin) has been shown by Piyush Gupta to kill breast cancer stem cells at least 100 times more effectively than another popular anti-cancer compound (paclitaxel) in mice. The mechanism of action by which salinomycin (Procoxacin) kills cancer stem cells specifically remains unknown, but is thought to be due to its action as a potassium ionophore due to the detection of Nigericin in the same compound screen. Salinomycin has high toxicity and a narrow therapeutic window which may limit its clinical use. [1]

3. References:

The pharmacological and toxicological properties of this product have not been fully investigated. Exercise caution in use and handling. This product must not be used in humans.