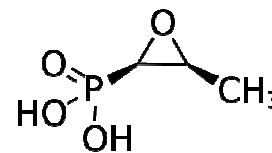


Product Data Sheet

Cat # ABT-300-001	Salinomycin	Size: 5 mg
Cat # ABT-300-010	Salinomycin	Size: 25 mg

General Information

Salinomycin is an antibacterial and coccidiostat ionophore therapeutic drug. Salinomycin has been shown by Piyush Gupta et al. of the Massachusetts Institute of Technology and the Broad Institute to kill breast cancer stem cells at least 100 times more effectively than another popular anti-cancer drug (paclitaxel) in mice. The study screened 16 000 different chemical compounds and found that only a small subset, including salinomycin and etoposide, targeted cancer stem cells responsible for metastasis and relapse. The mechanism of action by which Salinomycin 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.



Molecular Formula:  
C<sub>3</sub>H<sub>7</sub>O<sub>4</sub>P  
Molecular Weight:  
138.06g/mol

Analysis Test	Specification	Results
Appearance	white or yellowish powder	Conforms
Purity	>98%	99.3%
Heavy metals	<10 ppm	conform
Residue on ignition	<0.1%	0.08%
Loss on drying	<0.5%	0.32%
Organic solvent impurities	Meet the requirements	Conforms
Conclusion	QC Passed	

**Usage:** This item is for LABORATORY RESEARCH USE ONLY. It is not approved by US FDA for use in humans or animals. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**ABT-300-010**

**120503A**

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