

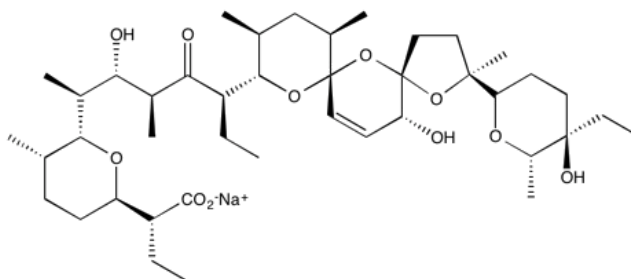
Catalog # 10-2654

Salinomycin Na

55721-31-8

from *Streptomyces albus*

Lot # X106518



A polyether ionophore with antibiotic and anti-cancer properties. It induces cell death in some types of cancer cells such as breast, lung, gastric cancer, leukemia and osteosarcoma¹. Displays selective toxicity for cancer stem cells¹. Induces rapid mitochondrial hyperpolarization². Induces selective cytotoxicity to MCF-7 mammosphere cells via the hedgehog signaling pathway³. Enhances doxorubicin-induced cytotoxicity of MCF-7/MDR human breast cancer cells by inhibiting drug efflux⁴. Kills cancer stem cells by sequestering iron.⁵

- 1) Gupta *et al.* (2009), *Identification of selective inhibitors of cancer stem cells by high-throughput screening*; Cell, **138** 645
- 2) Manago *et al.* (2015), *Early effects of the antineoplastic agent salinomycin on mitochondrial function*; Cell Death Dis., **6** e1930
- 3) Fu *et al.* (2016), *Salinomycin induces selective cytotoxicity to MCF-7 mammosphere cells through targeting the Hedgehog signaling pathway*; Oncol. Rep., **35** 912
- 4) Kim *et al.* (2015), *Salinomycin enhances doxorubicin-induced cytotoxicity in multidrug resistant MCF-7/MDR human breast cancer cells via decreased efflux of doxorubicin*; Mol. Med. Rep., **12(2)** 1898
- 5) Mai *et al.* (2017), *Salinomycin kills cancer stem cells by sequestering iron in lysosomes*; Nat. Chem. Epub ahead of print.

PHYSICAL DATA

Molecular Weight:	772.98
Molecular Formula:	C ₄₂ H ₆₉ O ₁₁ Na
Purity:	97% by TLC
	NMR: (Conforms)
Solubility:	DMSO
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.