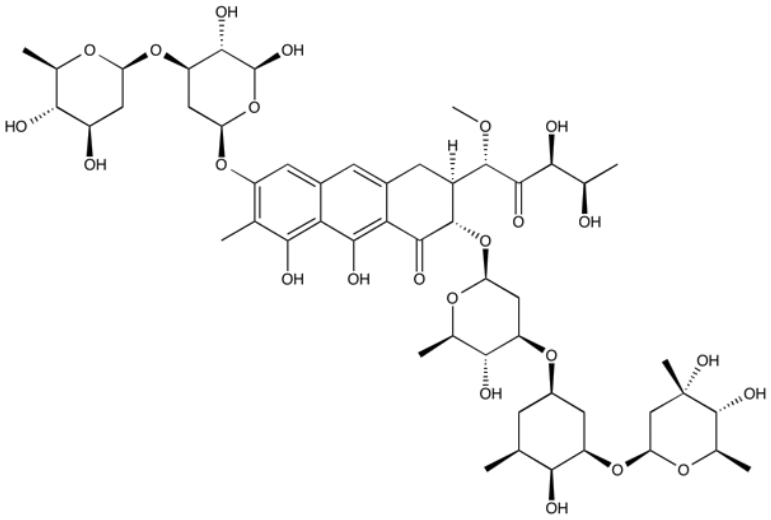
Catalog # 10-2085

Mithramycin A

CAS# 18378-89-7

A2371; Antibiotic LA 7017; Aureolic Acid; NSC 24559; PA 144; Plicamycin

Lot # X101413



Inhibits DNA methyl transferase.[1] A selective Sp1 inhibitor, it binds to GC rich DNA sequences, displacing Sp1 transcription factor binding to oncogene promoters, inhibitings their expression.[2] Mithramycin A (at 10-200 nM) sensitizes tumor cells to TRAIL-induced apoptosis.[3]

1) Lin *et al*. (2007), *Mithramycin A inhibits DNA methyltransferase and metastasis potential of lung cancer cells*; Anticancer Drugs, **18** 1157
2) Jia *et al*. (2010), *Combined treatment of pancreatic cancer cells with mithramycin A and tolfenamic acid promotes Sp1 degradation and synergistic anti-tumor activity*; Cancer Res., **70** 1111
3) Lee *et al*. (2006), *Mithramycin A sensitizes cancer cells to TRAIL-mediated apoptosis by down-regulation of XIAP gene promoter through Sp1 sites*; Mol. Cancer Ther., **5** 2737

PHYSICAL DATA

Molecular Weight:	1085.15
Molecular Formula:	$C_{52}H_{76}O_{24}$
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 20 mg/ml) or Ethanol (up to 10 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

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