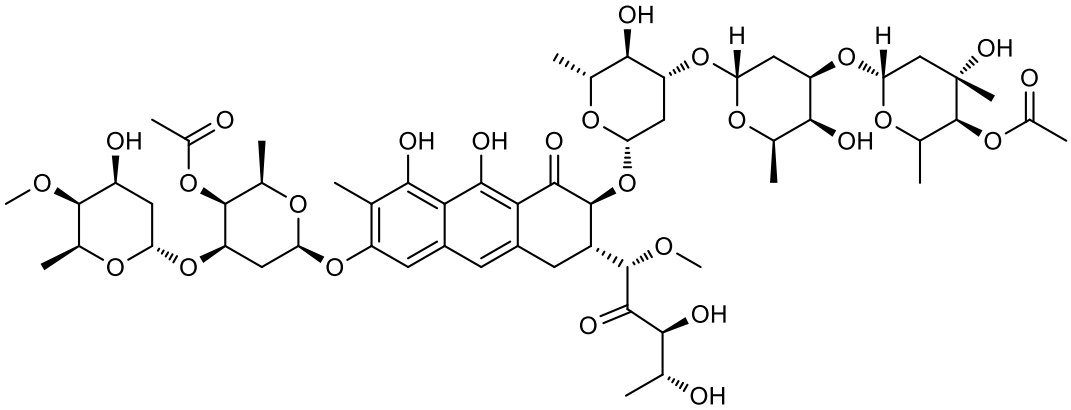
Catalog # 10-2064

Chromomycin A3

CAS# 7059-24-7

Aburamycin B; CMA3; NSC-58514

Lot # X101521



A DNA-binding agent specific for GC-rich sequences[1] which may be used as a DNA stain[2]. Inhibits neuronal apoptosis induced by oxidative stress and DNA damage.[3] Inhibits NFκB signaling.[4] Used in a reliable method for evaluating sperm DNA integrity.[5]

1) Van Dyke *et al*. (1983), *Chromomycin, Mithramycin and olivomycin binding sites on heterogeneous deoxyribonucleic acid. Footprinting with methidiumpropyl-EDTA)iron(II)*; Biochemistry, **22** 2373
2) Crissman and Tobey (1990), *Specific staining of DNA with the fluorescent antibiotic, mithramycin, chromomycin, and olivomycin*; Methods Cell Biol., **33** 97
3) Chatterjee *et al*. (2001), *Sequence-selective DNA binding drugs mithramycin A and chromomycin A3 are potent inhibitors of neuronal apoptosis induced by oxidative stress and DNA damage in cortical neurons*; Ann. Neurol., **49** 345
4) Miller *et al.* (2010), *Identification of known drugs that act as inhibitors of NF-kappaB signaling and their mechanism of action*; Biochem. Pharmacol., **79** 1272
5) Dutta *et al*. (2020), *Comparative analysis of tests used to assess sperm chromatin integrity and DNA fragmentation*; Andrologia, **July 6** e13718 (Online ahead of print)

PHYSICAL DATA

Molecular Weight:	1183.25
Molecular Formula:	$C_{57}H_{82}O_{26}$
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 20 mg/ml)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years 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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