



Monensin sodium salt

Catalog No: tcsc0007881

A	Available Sizes
Size:	100mg
	Specifications
CAS N 22373	
Formu	ıla: 1 ^{NaO} 11
Pathw Anti-in	ray: fection
Targe Bacter	
Purity >98%	/ Grade:
Solub DMSO	
	aative Names: sin A sodium salt
Obser	ved Molecular Weight:

Product Description

Monensin sodium salt is an antibiotic secreted by the bacteria Streptomyces cinnamonensis.

IC50 & Target: bacterial^[1]

692.85

In Vitro: Monensin sodium salt is an antibiotic secreted by the bacteria Streptomyces cinnamonensis. Untreated cells display 2.5%





apoptosis; 48 hours treatment with 1 μ M Monensin sodium salt shows 4.5% apoptosis whereas 5 μ M Monensin sodium salt for 48 hours induces a greater apoptotic response (16.4%). Pretreatment with either 1 or 5 μ M Monensin sodium salt for 24 hours followed by 10 μ M erlotinib treatment for another 24 hours results in a marked increases in apoptotic events (14.6% and 38.7%, respectively) when compare with either Monensin sodium salt or erlotinib treatments alone. Combination of 5 μ M Monensin sodium salt with 10 μ M erlotinib shows the highest percentage of apoptosis (38.7%)^[1].

In Vivo: Although the numbers of tumors do not change substantially, a significant (P=0.0144) reduction in the average size of lesions is observed in Monensin sodium salt-treated Apc^{+/Min} mice when compare with control animals (mean 0.199 mm² vs. 0.299 mm²). The total tumor area estimated in one animal is decreased in individuals receiving Monensin sodium salt (mean 10.16 mm² vs. 16.46 mm²; P=0.0125). Monensin sodium salt treatment increases the numbers of apoptotic cells and cells expressing the p21 cell-cycle inhibitor at the surface area of the neoplastic outgrowths. No changes in the cell proliferation, differentiation, and tissue architecture in the healthy parts of mucosa are noted after exposure to Monensin sodium salt^[2].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!