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## **Product Information**

Product ID M017545 CAS No. 52665-74-4

Chemical Name (2E,4E,6R)-N-[(5S,6R)-5-hydroxy-5-[(1E,3E,5E)-7-[(2-hydroxy-5-

oxocyclopenten-1-yl)amino]-7-oxohepta-1,3,5-trienyl]-2-oxo-7-

oxabicyclo[4.1.0]hept-3-en-3-yl]-2,4,6-trimethyldeca-2,4-dienamide **Synonym** Manumycin-A; 2,4-Decadienamide, N-[(15,55,6R)-5-hydroxy-5-[(1E,3E,5E)-7-[(2-

hydroxy-5-oxo-1-cyclopenten-1-yl)amino]-7-oxo-1,3,5-heptatrienyl]-2-oxo-7oxabicyclo[4.1.0]hept-3-en-3-yl]-2,4,6-trimethyl-, (2E,4E,6R)- (9CI); (2E,4E,6R)-

1\_[(15 55 6D)\_5\_Hvdrovv\_5\_[(1F 3F 5F)\_7\_[(2-hvdrovv\_5\_ovo\_1\_cvclor

Formula  $C_{31}H_{38}N_2O_7$ 

Formula Wt. 550.65

**Melting Point** 

Purity ≥97%

**Solubility** Soluble in methanol or

DMSO; Insoluble in water.

## **Pricing and Availability**

Bulk quanitites available upon request

Product ID	Size	List Price
M017545	1 mg	\$157.50
M017545	5 mg	\$572.30

Store Temp -20°C Ship Temp Ambient

**Description** Manumycin A is a natural antibiotic found in Streptomyces parvulus that is known to inhibit the enzyme farnesyl transferase.

Manumycin A has been found to induce apoptosis, inhibit the PI3K-AKT pathway, and decrease expression of caspase-9 and PARP in human colorectal cancer cells. The result of manumycin A on human oral squamous cancer cells was inhibition of cell viability, induction of apoptosis, regulation of transcription factor Sp1, and control of mitochondrial membrane permeability. In a mouse model of muscular dystrophy, treatment with manumycin A corrected aberrant splicing of Clcn1 gene. TEST!!!!!!

References Zhang J, Jiang H, Xie L, et al. Antitumor effect of manumycin A on colorectal cancer cells by increasing the reactive oxygen species production and blocking PI3K-AKT pathway. Onco Targets Ther. 2016 May 24;9:2885-2895. PMID: 27307747.

> Cho JJ, Chae JI, Kim KH, et al. Manumycin A from a new Streptomyces strain induces endoplasmic reticulum stress-mediated cell death through specificity protein 1 signaling in human oral squamous cell carcinoma. Int J Oncol. 2015 Nov;47(5):1954 -1962. PMID: 26352011.

> Li JG, She MR, Lu CY, et al. Manumycin induces apoptosis in prostate cancer cells. Onco Targets Ther. 2014 May 22;7:771-777. PMID: 24899815.

Oana K, Oma Y, Suo S, et al. Manumycin A corrects aberrant splicing of Clcn1 in myotonic dystrophy type 1 (DM1) mice. Sci Rep. 2013;3:2142. PMID: 23828222.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.