



LKT Laboratories, Inc.

Monensin Sodium

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Product Information

Product ID M5753

CAS No. 22373-78-0

Chemical Name 2-[5-Ethyltetrahydro-5-[tetrahydro-3-methyl-5-[tetrahydro-6-hydroxy-6-(hydroxymethyl)-3,5-dimethyl-2H-pyran-2-yl]-2-furyl]-2-furyl]-9-hydroxy-8-methoxy- α,γ ,2,8-tetramethyl-1,6-dioxaspiro[4.5]-decane

Synonym Monensin sodium salt, Coban, Romemsin, Rumensin

Formula $C_{36}H_{61}O_{11} Na$

Formula Wt. 692.86

Melting Point 267-269°C

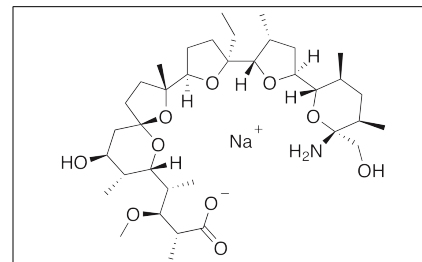
Purity $\geq 98\%$

Solubility Insoluble in water. Soluble in DMSO, ethanol, methanol, chloroform, other organic solvents.

Store Temp 4°C

Ship Temp Ambient

Description Monensin is a polyether antibiotic initially produced by *Streptomyces* that exhibits antibacterial and anti-parasitic activities. Monensin is commercially used in cattle feed; it acts as an ionophore, transporting cations across cell membranes. Monensin inhibits autophagy, interfering with the fusion of the autophagosome and the lysosome.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
M5753	500 mg	\$66.60
M5753	1 g	\$95.30
M5753	5 g	\$334.10

References Choi HS, Jeong EH, Lee TG, et al. Autophagy Inhibition with Monensin Enhances Cell Cycle Arrest and Apoptosis Induced by mTOR or Epidermal Growth Factor Receptor Inhibitors in Lung Cancer Cells. *Tuberc Respir Dis (Seoul)*. 2013 Jul;75(1):9-17. PMID: 23946753.

Lavine MD, Arrizabalaga G. Analysis of monensin sensitivity in *Toxoplasma gondii* reveals autophagy as a mechanism for drug induced death. *PLoS One*. 2012;7(7):e42107. PMID: 22848721.

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