

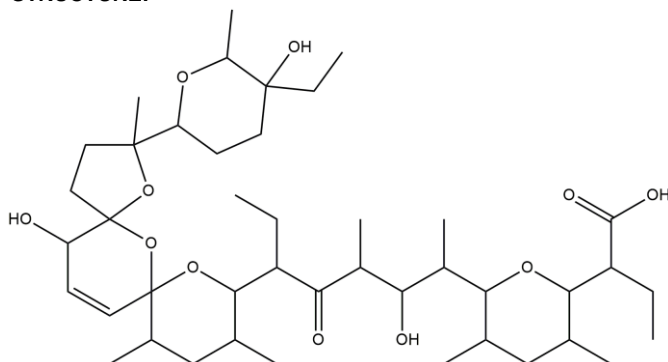
# Narasin

04/20

**ALTERNATE NAMES:** (4S)-4-Methylsalinomycin; (2R)-2-[(2R,3S,5S,6R)-6-[(2S,3S,4S,6R)-6-[(3S,5S,7R,9S,10S,12R,15R)-3-[(2R,5R,6S)-5-ethyl-5-hydroxy-6-methyloxan-2-yl]-15-hydroxy-3,10,12-trimethyl-4,6,8-trioxadispiro[4.1.57.35]pentadec-13-en-9-yl]-3-hydroxy-4-methyl-5-oxooctan-2-yl]-3,5-dimethyloxan-2-yl]butanoic acid; narasin A; Monteban; 2H-Pyran-2-acetic acid, alpha-ethyl-6-(5-(2-(5-ethyltetrahydro-5-hydroxy-6-methyl-2H-pyran-2-yl)-15-hydroxy-2,10,12-trimethyl-1,6,8-trioxadispiro(4.1.5.3)pentadec-13-en-9-yl)-2-hydroxy-1,3-dimethyl-4-oxoheptyl)tetrahydro-3,5-dimethyl-; A 28086A; Antibiotic A 28086A

**CATALOG #:** B3020-5 5 mg  
B3020-25 25 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>43</sub>H<sub>72</sub>O<sub>11</sub>

**MOLECULAR WEIGHT:** 765.03

**CAS NUMBER:** 55134-13-9

**APPEARANCE:** White to off-white Solid

**PURITY:** >95%

**SOLUBILITY:** Soluble in DMSO

**DESCRIPTION:** Narasin is an ionophore antibiotic which is a derivative of salinomycin. It modifies the permeability of cellular membranes to cationic metal species. It inhibits NF-κB signaling via inhibition of IκBα phosphorylation with an IC<sub>50</sub> of 3.2 μM. Treatment with narasin (2-4 μM) and TRAIL synergistically induces apoptosis in human glioma cells by inducing ER stress and CHOP upregulation.

**STORAGE TEMPERATURE:** -20°C. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**REFERENCES:**

1. Miller, S.C., Huang, R., Sakamuru, S., et al. Identification of known drugs that act as inhibitors of NF-κB signaling and their mechanism of action. *Biochem. Pharmacol.* 79(9), 1272-1280 (2010).
2. Yoon, M.J., and Kang, Y.J. Monensin, a polyether ionophore antibiotic, overcomes TRAIL resistance in glioma cells via endoplasmic reticulum stress, DR5 upregulation and c-FLIP downregulation. *Carcinogenesis* 34(8), 1918-1928 (2013).

**RELATED PRODUCTS:**

Nigericin sodium salt (Cat. No. 2096)  
 Gramicidin A (Cat. No. B2967)  
 Salinomycin Sodium (Cat. No. B1584)  
 Nystatin, USP (Cat. No. B1509)  
 Monensin A Sodium (Cat. No. B1623)

**DISCLAIMER:** *FOR RESEARCH USE ONLY! Not to be used on humans.*