
Product Data Sheet

Product Name: Narasin
Cat. No.: GC63097

Chemical Properties

Cas. No. 55134-13-9

Formula $C_{43}H_{72}O_{11}$

M.Wt 765.03

Solubility DMSO : 12.5 mg/mL (16.34 mM; Need ultrasonic)

Storage

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Narasin is an ionophore antibiotic isolated from certain *Streptomyces* sp. and used in veterinary practice as a coccidiostat for gastrointestinal parasites. It has also been shown to inhibit NF- κ B signaling *via* inhibition of I κ B α phosphorylation (IC_{50} = 3.2 μ M) and to stimulate tumor necrosis factor-related apoptosis-induced ligand (TRAIL)-mediated apoptosis in glioma cells *via* ER stress.^{1,2}

1. Miller, S.C., Huang, R., Sakamuru, S., et al. Identification of known drugs that act as inhibitors of NF- κ B signaling and their mechanism of action *Biochem.*

Pharmacol. 79(9)1272-1280(2016) 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)

Caution: Product has not been fully validated for medical applications. For research use only.

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