
Product Data Sheet

Product Name: N-563
Cat. No.: GC30401

Chemical Properties

Cas. No. 140686-92-6

SMILES O=C(NCCC(O)=O)CC(O)CNC(CCCCCNC(N)=N)=O

Formula $C_{15}H_{29}N_5O_5$ M.Wt 359.42

Solubility DMSO : < 1 mg/mL (insoluble or slightly soluble) Storage Store at -20°C

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

N-563 is an analogue of deoxyspergualin with an immunostimulating activity, it promotes resistance to *Candida albicans* infection in mice. In vivo: The protective effect of the N-563 against *C. albicans* infection was investigated in normal and immunosuppressed mice. In normal mice, N-563 treatment at 10 mg/kg for 3 days prior to infection significantly prolonged the survival time. In immunosuppressed mice treated with a single dose of cyclophosphamide 4 days prior to infection, N-563 at 3 and 10 mg/kg for 3 days prior to infection also significantly prolonged the survival time of mice. In addition, it augmented the phagocytic activity of neutrophils and enhanced the delayed type hypersensitivity reaction against *C. albicans*. Coincidentally, N-563 appeared to protect against secondary infection with *C. albicans* in the delayed type hypersensitivity-positive mice.[1] N-563 was dissolved in physiological saline and filtered through a Millipore filter (0.22µm).[1]

[1]. Aoyagi K. et al. The novel immunostimulant N-563, an analogue of deoxyspergualin, promotes resistance to *Candida albicans* infection in mice. *The Journal of Antibiotics*. Oct;47(10):1077-83. doi:10.7164/antibiotics.47.1077(1994)

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

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