

Neocarzinostatin

Chemical Properties

CAS No. : 9014-02-2

Formula:

Molecular Weight:

Neocarzinostatin

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Neocarzinostatin is an effective DNA-damaging, anti-tumor antibiotic. It recognizes double-stranded DNA bulge and induces DNA double strand breaks (DSBs). Neocarzinostatin leads to apoptosis. Neocarzinostatin has potential for EpCAM-positive cancer treatment.
Targets(IC50)	Apoptosis,5-HT Receptor,Antibacterial,Antibiotic,DNA/RNA Synthesis

Reference

- Athala PK, et al. Probing the biophysical interaction between Neocarzinostatin toxin and EpCAM RNA aptamer. *Biochem Biophys Res Commun.* 2016 Jan 8;469(2):257-62.
- Allen Taylor, et al. Ubiquitination capabilities in response to neocarzinostatin and H2O2 stress in cell lines from patients with ataxia-telangiectasia. *Oncogene* (2002) 21, 4363- 4373.
- Athala PK, et al. Neocarzinostatin, Aptamer Conjugates for Targeting EpCAM-positive Tumor Cells. *Anticancer Res.* 2017 Jul;37(7):3615-3629.
- Tianqin G, et al. Synergistic Anti-glioma Effects in Vitro and in Vivo of Eneidyne Antibiotic Neocarzinostatin and Paclitaxel via Enhanced Growth Delay and Apoptosis-Induction. *Biol Pharm Bull.* 2016 Oct 1;39(10):1623-1630.
- Rogers D, et al. Molecular predictors of human nervous system cancer responsiveness to enedyne chemotherapy.

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