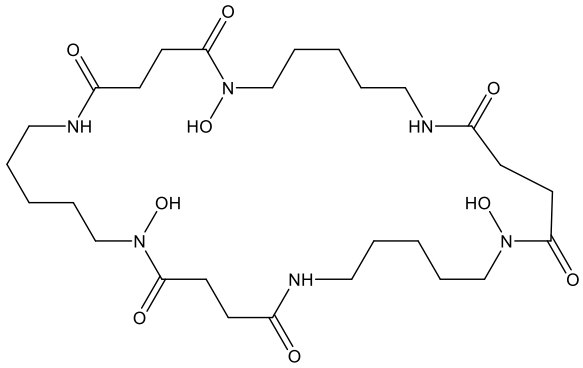
Catalog # 10-2775

Nocardamine

CAS# 26605-16-3

1,12,23-Trihydroxy-1,6,12,17,23,28-hexazacyclotritriacontane-2,5,13,16,24,27-hexone; Desferrioxamine E

Lot # X109676



A bacterially produced siderophore[1] which can act as an intracellular ion chelator[2]. A cyclic analog of the ferroptosis inhibiting siderophore desferoxamine.[3] Displayed inhibitory effects to colony formation of T-47D, SK-Mel-5, SK-Mel-28 and PRMI-7951 tumor cell lines[4] as well as antimalarial activity[5].

1) Normant *et al.* (2020), *Nocardamine-Dependent Iron Uptake in Pseudomonas aeruginosa: Exclusive Involvement of the FoxA Outer Membrane Transporter;* ACS Chem. Biol. **15** 2741
2) Ueki *et al.* (2009), *Nocardamin Production by Streptomyces avermitilis;* Actinomycetologica **23** 34
3) Yan *et al.* (2021), *Ferroptosis: mechanisms and links with diseases;* Signal Transduct. Target Ther. **6** 49
4) Kalinovskaya *et al.* (2011), *Marine isolate Citricoccus sp. KMM 3890 as a source of a cyclic siderophore nocardamine with antitumor activity;* Microbiol. Res. **166** 654
5) Mahmud *et al.* (2022), *Bioactivities and Mode of Actions of Dibutyl Phthalates and Nocardamine from Streptomyces sp. H11809;* Molecules **27** 2292

PHYSICAL DATA

Molecular Weight:	600.71
Molecular Formula:	$C_{27}H_{48}N_6O_9$
Purity:	>98% TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (5 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at room temperature for up to 2 years from the date of purchase. Store solutions at -20ºC for up to 3 months.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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