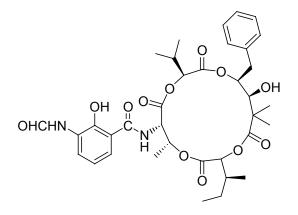


PRODUCT DATA SHEET

Neoantimycin

Code: BIA-N1057

Pack sizes: 0.5 mg, 2.5 mg



Synonyms

Specifications

CAS #	:	22862-63-1
Molecular Formula	:	C ₃₆ H ₄₆ N ₂ O ₁₂
Molecular Weight	:	698.8
Source	:	Streptomyces sp. MST-AS4461
Appearance	:	White solid
Purity	:	> 99% by HPLC
Long Term Storage	:	-20°C, protect from light
Solubility	:	Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Neoantimycin is a rare and unusual ring-extended member of the antimycin class. Neoantimycin is produced by a *Streptomyces* species unrelated to antimycin-producing strains. Literature references to neoantimycin are limited but the recent discovery of the closely related metabolite, prunustatin A, as a selective GRP78 molecular chaperone down-regulator highlights the potential of this class as research probes. In-house screening at Microbial Screening Technologies has shown the metabolite to possess potent nematocidal and antitumor activity with only limited antifungal activity.

References

- 1. The structure of neoantimycin. Caglioti L. *Tetrahedron* **1969**, 25, 2193.
- 2. Prunustatin A, a novel GRP78 molecular chaperone down-regulator isolated from *Streptomyces violaceoniger*. Umeda Y. et al. *J Antibiot.* **2005**, 58, 206.