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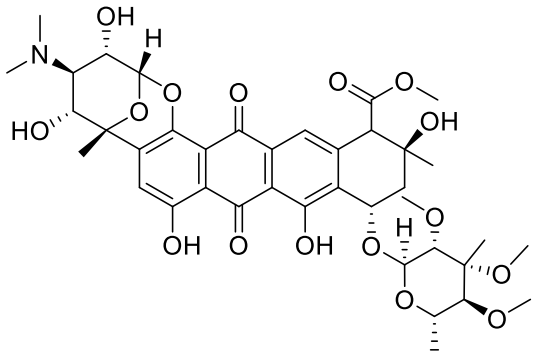
PRODUCT DATA SHEET

Nogalamycin

Code No.: **BIA-N1575**

Pack sizes: **5 mg, 25 mg**



Synonyms : U 15167, Antibiotic U 15167

Specifications

CAS #	:	**1404-15-5**
Molecular Formula	:	**$C_{39}H_{49}NO_{16}$**
Molecular Weight	:	**787.8**
Source	:	***Streptomyces* sp.**
Appearance	:	**Red orange solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol, DMSO.**

Application Notes

Nogalamycin is an unusual anthracycline produced by Streptomyces nogalater var. nogalater, reported by researchers at Upjohn in 1965. Nogalamycin contains two saccharides. The neutral monosaccharide attaches to the D ring, similar to the aminoglycoside moieties of the doxorubicin class, while the second, basic saccharide attaches to the phenolic group on the A ring in the ortho position to form a unique family of hexacyclic anthracyclines. Nogalamycin is potent antibacterial and antitumor agent that interacts with DNA by intercalation.

References

1. Antibiotic nogalamycin and method of producing. Bhuyan B.K. et al., US Patent 3,183,157 1965.
2. Fermentation, taxonomic and biological studies of nogalamycin. Bhuyan B.K. et al., Antimicrob. Agents Chemother. 1965, 5, 836.
3. Structure of nogalamycin. Wiley P.F. J. Am. Chem. Soc. 1977, 99, 542.

For in vitro laboratory use only. Not for human or animal use.

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