

Product Name:	Nogalamycin
Product Number:	N031
CAS Number:	1404-15-5
Molecular Formula:	$C_{39}H_{49}NO_{16}$
Molecular Weight:	787.8
Appearance:	Red orange solid
Storage Conditions:	-20°C
Description:	<p>Nogalamycin is an unusual anthracycline produced by <i>Streptomyces nogalater</i> var. <i>nogalater</i>, 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.</p> <p>Nogalamycin is soluble in ethanol, methanol, DMF or DMSO.</p>
Mechanism of Action:	Nogalamycin interacts with DNA by intercalation.
References:	<p>Antibiotic nogalamycin and method of producing. Bhuyan B.K. et al. US Patent 3,183,157 1965.</p> <p>Fermentation, taxonomic and biological studies of nogalamycin. Bhuyan B.K. et al. Antimicrob. Agents Chemother. 1965, 5, 836.</p> <p>Structure of nogalamycin. Wiley P.F. J. Am. Chem. Soc. 1977, 99, 542.</p>