

Product Name:	Moenomycin
Product Number:	M064
CAS Number:	11015-37-5
Molecular Formula:	$C_{69}H_{107}N_4O_{35}P$ (for A)
Molecular Weight:	1583.6 (for A)
Appearance:	White to off-white solid
Storage Conditions:	-20°C
Description:	<p>Moenomycin complex is a mixture of five major components, A, A12, C1, C3 and C4, isolated from several strains of Streptomyces in the 1960s. Moenomycins are high molecular weight phosphoglycolipids with potent antibiotic activity used in animal health.</p> <p>Moenomycin is soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.</p>
Mechanism of Action:	Moenomycins are the only antibiotic known to selectively inhibit the transglycosylation step catalysed by penicillin-binding protein 1b.
References:	<p>Moenomycin, a new antibiotic. II. Characterization and chemistry. Huber G. et al. Antimicrob. Agents Chemother. 1965, 5, 737.</p> <p>Membrane intermediates in the peptidoglycan metabolism of Escherichia coli: Possible roles of PBP 1b and PBP 3. Van Heijenoort Y. et al. J. Bacteriol. 1992, 174, 3549.</p>