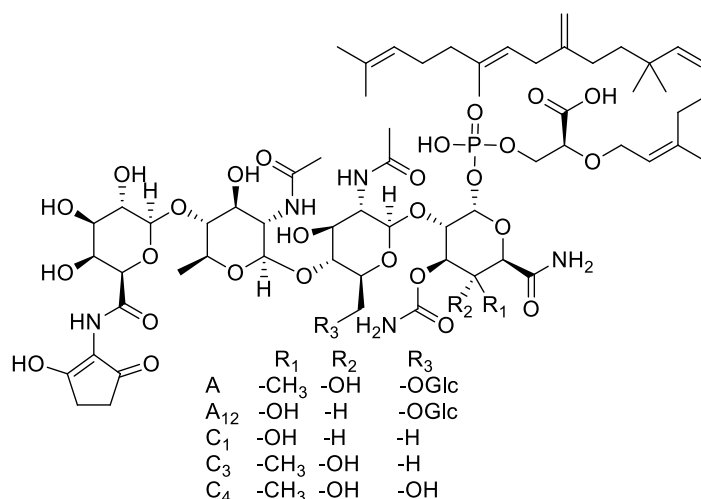


## Moenomycin complex

Code No.: **BIA-M1297**

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



Synonyms : Bambermycin, Flavomyacin

## Specifications

CAS #	: <b>11015-37-5</b>
Molecular Formula	: <b>C<sub>69</sub>H<sub>107</sub>N<sub>4</sub>O<sub>35</sub>P (for A)</b>
Molecular Weight	: <b>1583.6 (for A)</b>
Source	: <b><i>Streptomyces</i> sp.</b>
Appearance	: <b>Off-white to tan solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.</b>

## Application Notes

Moenomycin complex is a mixture of five major components, A, A<sub>12</sub>, C<sub>1</sub>, C<sub>3</sub> and C<sub>4</sub>, isolated from several strains of *Streptomyces* in the 1960s. Moenomycins are high molecular weight phosphoglycolipids with potent antibiotic activity used in animal health. Moenomycins are the only antibiotic known to selectively inhibit the transglycosylation step catalysed by penicillin-binding protein 1b.

## References

1. Moenomycin, a new antibiotic. II. Characterization and chemistry. Huber G. et al., *Antimicrob. Agents Chemother.* 1965, 5, 737.
2. 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.