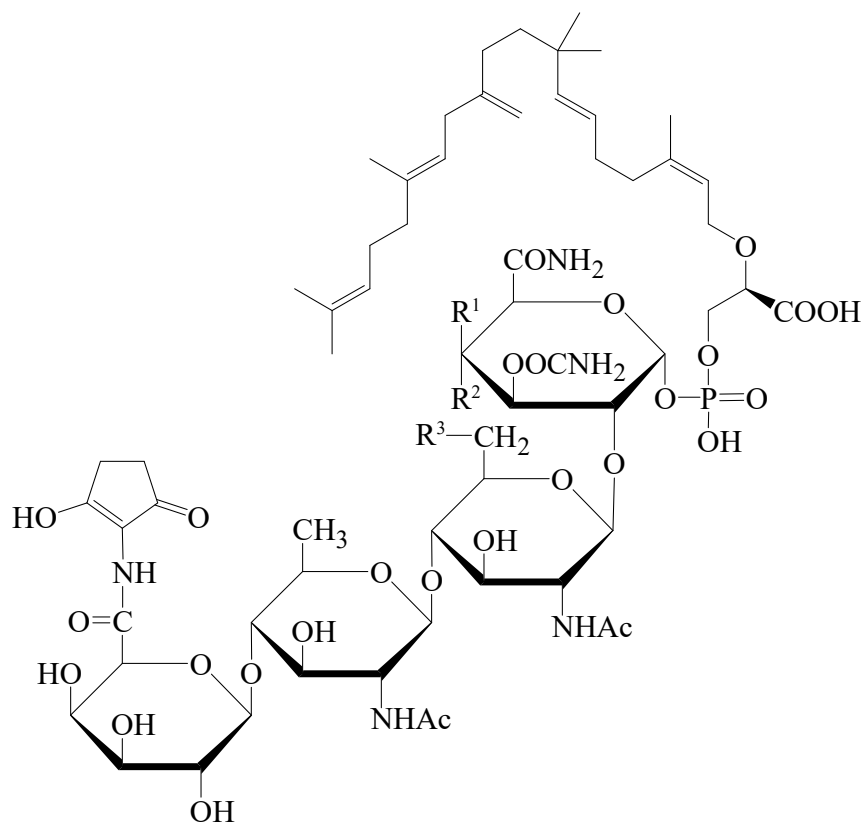




>>Entry Name: Moenomycin

Synonym(s): Bambermycin, BAN. Flavofosfolipol. Flavomycin. Flavophospholipol



Moenomycin A, $R^1 = \text{CH}_3$, $R^2 = \text{OH}$, $R^3 = \text{OGlc}$
 A_{12} , $R^1 = \text{OH}$, $R^2 = \text{H}$, $R^3 = \text{OGlc}$
 C_1 , $R^1 = \text{OH}$, $R^2 = R^3 = \text{H}$
 C_3 , $R^1 = \text{CH}_3$, $R^2 = \text{OH}$, $R^3 = \text{H}$
 C_4 , $R^1 = \text{CH}_3$, $R^2 = R^3 = \text{OH}$

Related CAS Registry Numbers(s): 11015-37-5

Bambermycin consists of a purified mixt. of Moenomycins A and C

Biological Source: Prod. by *Streptomyces bambergensis*

Use/Importance: Antibiotic used in animal nutrition

>>Variant: Moenomycin A

CAS Registry Number: 76095-39-1

Molecular Formula: $\text{C}_{69}\text{H}_{108}\text{N}_5\text{O}_{34}\text{P}$

Molecular Weight: 1582.599

Accurate Mass: 1581.661342

Percentage Composition: C 52.37%; H 6.88%; N 4.43%; O 34.37%; P 1.96%

Melting Point: Mp 184-185°

UV: [acid] λ_{max} 246 (ϵ 12300) (0.1N HCl) (Derep) [base] λ_{max} 258 (ϵ 16700) (H_2O at pH 12) (Derep) [neutral] λ_{max} 258 (ϵ 16700) (H_2O pH 7) (Derep)

>>Derivative: Na salt

Optical Rotation: $[\alpha]_{\text{D}}^{23} +4$ (c, 1 in H_2O)

>>Variant: Moenomycin A_{12}

CAS Registry Number: 162895-32-1

Molecular Formula: $\text{C}_{68}\text{H}_{106}\text{N}_5\text{O}_{34}\text{P}$

Molecular Weight: 1568.572

Accurate Mass: 1567.645692

Percentage Composition: C 52.07%; H 6.81%; N 4.46%; O 34.68%; P 1.97%

Solubility: BERDY SOL: Sol. MeOH

UV: [neutral] λ_{max} 258 () (MeOH) (Berdy)

>>Variant: Moenomycin C_1