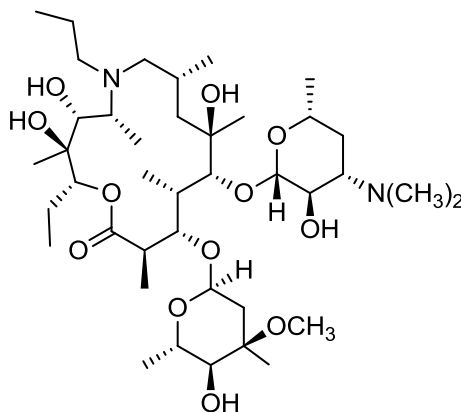


Gamithromycin

Code No.: **BIA-G1568**

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



Synonyms : ML 1709460

Specifications

CAS #	: 145435-72-9
Molecular Formula	: C ₄₀ H ₇₆ N ₂ O ₁₂
Molecular Weight	: 777.0
Source	: Semi-synthetic
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Gamithromycin is a semi-synthetic macrocyclic lactone belonging to the azalide class derived from erythromycin, typified by azithromycin. The synthesis of gamithromycin involves a ring expansion using a Beckmann rearrangement to produce the 15-membered dibasic macrolide. Gamithromycin provides a broader spectrum of action, higher acid stability and improved bioavailability compared to older analogues of the erythromycin class and has been exclusively developed for animal health applications.

References

1. Antibacterial 9-deoxo-9a-alkyl-9a-aza-9a-homoerythromycin A derivatives and intermediates therefor. G.M. Bright US Patent 4,464,527 1985.
2. Determination of the duration of antibacterial efficacy following administration of gamithromycin using a bovine Mannheimia haemolytica challenge model. Forbes A.B. et al. Antimicrob. Agents Chemother. 2011, 55, 831.

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