

Product Name:	Gamithromycin
Product Number:	G050
CAS Number:	145435-72-9
Molecular Formula:	$C_{40}H_{76}N_2O_{12}$
Molecular Weight:	777
Appearance:	White solid
Storage Conditions:	-20°C
Description:	<p>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.</p> <p>Gamithromycin is soluble in ethanol, methanol, DMF or DMSO.</p>
References:	<p>Antibacterial 9-deoxo-9a-alkyl-9a-aza-9a-homoerythromycin A derivatives and intermediates therefor. G.M. Bright US Patent 4,464,527 1985.</p> <p>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.</p>