

Product Name:	Amphomycin
Product Number:	A005
CAS Number:	1402-82-0
Molecular Formula:	C ₅₈ H ₉₁ N ₁₃ O ₂₀
Molecular Weight:	1290.4
Appearance:	Off-white to fawn solid
Storage Conditions:	-20°C
Description:	Amphomycin is a lipopeptide antibiotic produced by Streptomyces and Actinoplanes, initially reported by researchers at Bristol-Myers in 1953 from Streptomyces canus. Amphomycin was marketed as a complex of closely related analogues in the 1950s and 1960s. Structure elucidation was not completed until 2000. Amphomycin is closely related to a number of "lost" antibiotics, aspartocin, crystallomycin, glumamycin, friulimycin, laspartocin, tsushimycin and zaomycin. Interest in amphomycin was re-awakened with the discovery of friulimycin activity against antibiotic resistant strains. Amphomycin is soluble in ethanol, methanol, DMF and DMSO.
Mechanism of Action:	Amphomycin inhibits peptidoglycan synthesis and blocks cell wall development.
References:	Amphomycin. A new antibiotic. Heineman B. et al. Antibiot. Chemother. 1953, 3, 1239. Studies on bacterial cell wall inhibitors. II. Inhibition of peptidoglycan synthesis in vivo and in vitro by amphomycin. Tanaka H. et al. Biochim. Biophys. Acta 1977, 497, 633. Friulimicins: Novel lipopeptide antibiotics with peptidoglycan synthesis inhibiting activity from Actinoplanes friuliensis sp. nov. I. Taxonomic studies of the producing microorganism and fermentation. Aretz W. et al. J. Antibiot. 2000, 53, 807. Friulimicins: Novel lipopeptide antibiotics with peptidoglycan synthesis inhibiting activity from Actinoplanes friuliensis sp. nov. II. Isolation and structural characterization. Vertesy L. et al. J. Antibiot. 2000, 53, 816.