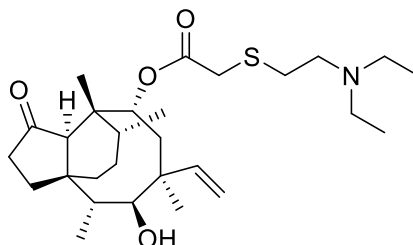


Tiamulin

Code No.: **BIA-T1321**

Pack sizes: **25 mg, 100 mg**



Synonyms :

Specifications

CAS #	: 55297-95-5
Molecular Formula	: C ₂₈ H ₄₇ NO ₄ S
Molecular Weight	: 493.7
Source	: Semi-synthetic
Appearance	: Evaporated resin
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO and water at pH <5.

Application Notes

Tiamulin is a semi-synthetic analogue of pleuromutilin in which the hydroxyacetyl side chain is replaced with a larger diethylaminoethylthioacetyl moiety, providing greater hydrophobicity and an ionisable group for salt formation and greater water solubility. Tiamulin is a potent and highly selective antibiotic active against a range of Gram positive bacteria, with no cross resistance to existing antibiotic classes due to its unique mode of action. Like pleuromutilin, it inhibits protein synthesis by binding to domain V of 23S rRNA.

References

1. New pleuromutilin derivative with enhanced antimicrobial activity. I. Synthesis. Egger H. & Reinshagen H. J. *Antibiot.* 1976, 29, 915.
2. Pleuromutilin antibiotics. Hunt E. *Drugs Future* 2000, 25, 1163.