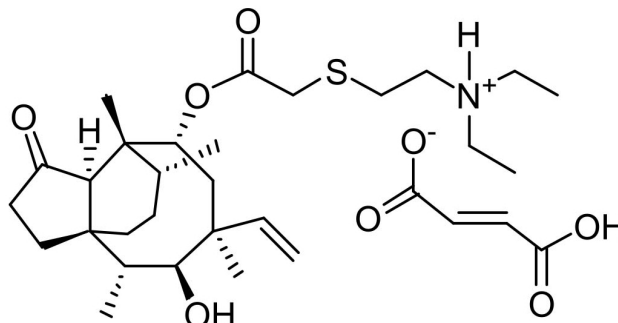


Tiamulin hydrogen fumarate

Code No.: BIA-T1322

Pack sizes.: 25mg, 100mg



Synonyms:

-

Specifications

CAS #	: 55297-96-6
Molecular Formula	: C32H51NO8S
Molecular Weight	: 609.8
Source	: -
Appearance	: White solid
Purity	: >98% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

Application Notes

Tiamulin is a semi-synthetic analogue of pleuromutilin in which the hydroxyacetyl side chain is replaced with a larger diethylaminoethylthioacetate moiety, providing greater hydrophobicity. The hemi-fumarate provides a stable salt with improved 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 of inhibiting 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.