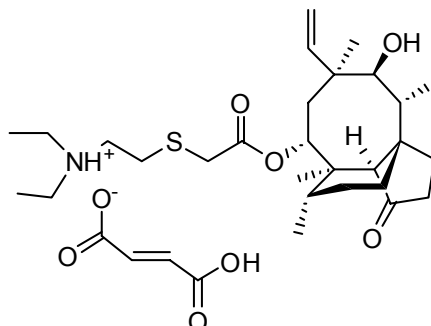


## Tiamulin hydrogen fumarate

Code: **BIA-T1322**

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



Synonyms : -

## Specifications

CAS #	: <b>55297-96-6</b>
Molecular Formula	: <b>C<sub>32</sub>H<sub>51</sub>NO<sub>8</sub>S</b>
Molecular Weight	: <b>609.8</b>
Source	: <b>Semi-synthetic</b>
Appearance	: <b>White solid</b>
Purity	: <b>&gt;98%</b>
Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.</b>

## 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. The formation of the hemi-fumarate salt 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. 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.