Tiamulin hydrogen fumarate

Specifications
CAS # : 55297-96-6
Molecular Formula : C_{32}H_{51}NO_8S
Molecular Weight : 609.8
Source : Semi-synthetic
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 diethylaminoethylthioacetyl 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