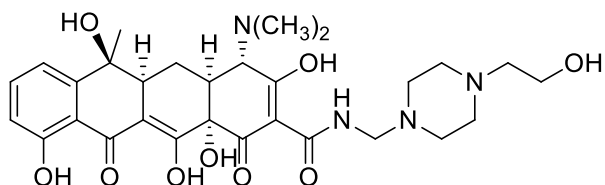


Pipacycline

Code No.: **BIA-P1473**

Pack sizes: **5 mg, 25 mg**



Synonyms : Mepicycline

Specifications

CAS #	: 1110-80-1
Molecular Formula	: C₂₉H₃₈N₄O₉
Molecular Weight	: 586.6
Source	: Semi-synthetic
Appearance	: Yellow to orange solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

Application Notes

Pipacycline (mepicycline) is a semi-synthetic tetracycline formed by a Mannich condensation of formaldehyde and 4-hydroxyethylpiperazine with tetracycline. The introduction of the piperazine improves bioavailability, but Mannich bases are pro-drugs, converting back to the parent compound. Pipacycline is used commercially as a salt in combination with penicillin V for parenteral use (penimepicycline). The intrinsic in vitro activity and SARs for the amide region of the tetracycline molecule have not been investigated extensively. Pipacycline has not been extensively cited in the literature.

References

1. Antibiotic characteristics of mepicycline, a synthetic tetracycline derivative, and of penimepicycline, a new antibiotic compound. Gradnik G.G. Ital. Chemioter. 1962, 6-9:302-14
2. Penimepicycline: studies on its chemical structure, physico-chemical properties, bioassay and chemical assay. Inahara H. et al., Jpn. J. Antibiot. 1969 22, 108.