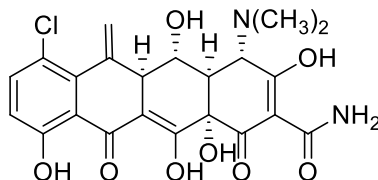


Meclocycline

Code No.: **BIA-M1464**

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



Synonyms : 7-Chloro-6-methylene-oxytetracycline, GS 2989, NCS 78502

Specifications

CAS #	: 2013-58-3
Molecular Formula	: C₂₂H₂₁ClN₂O₈
Molecular Weight	: 476.9
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. Limited water solubility.

Application Notes

Meclocycline is a semi-synthetic tetracycline prepared by dehydration of the 6-hydroxy group of chlortetracycline to yield an exocyclic 6-methylene. Meclocycline is a close structural analogue of methacycline. Like all tetracyclines, meclocycline shows broad spectrum antibacterial and antiprotozoan activity and acts by binding to the 30S and 50S ribosomal sub-units, blocking protein synthesis. Meclocycline has been extensively cited in the literature with over 400 references.

References

1. 6-Methylenetetracyclines. I A new class of tetracycline antibiotics. Blackwood R.K. et al., J. Am. Chem. Soc. 1961, 83, 2773.
2. 6-Methylenetetracyclines. III.1 Preparation and Properties. Blackwood R.K. et al., J. Am. Chem. Soc. 1963, 85, 3943.