

PRODUCT DATA SHEET

Code No.: BIA-M1464

Pack sizes: 5 mg, 25 mg

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

Specifications

Meclocycline

CAS # : 2013-58-3

Molecular Formula : $C_{22}H_{21}CIN_2O_8$

Molecular Weight : 476.9

Source : Semi-synthetic

Appearance : Yellow to orange solid

Purity : >98% 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.
- 6-Methylenetetracyclines. III.1 Preparation and Properties. Blackwood R.K. et al. J. Am. Chem. Soc. 1963, 85, 3943.

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