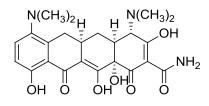


PRODUCT DATA SHEET

Code No.: BIA-M1471

Pack sizes: 5 mg, 25 mg



Synonyms

7-Dimethylamino-6-demethyl-6-deoxytetracycline, CL 59806, Minocyclin

Specifications

Minocycline

CAS #	: 10118-90-8	
Molecular Formula	: C ₂₃ H ₂₇ N ₃ O ₇	
Molecular Weight	: 457.5	
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 solub	oility.

Application Notes

Minocycline is a semi-synthetic tetracycline prepared by sequential hydrogenolysis, nitration and reductive methylation. Minocycline, together with doxycycline, is regarded as a 'third generation' tetracycline largely replacing the natural products and pro-drugs produced in the early 1950s for mainstream antibiotic applications. Like all tetracyclines, minocycline shows broad spectrum antibacterial and antiprotozoan activity and acts by binding to the 30S and 50S ribosomal sub-units, blocking protein synthesis. Minocycline has been extensively cited in the literature with over 5,000 references.

References

- The 6-deoxytetracyclines. VII. Alkylated aminotetracyclines possessing unique antibacterial activity. Martel M.J. & Boothe J.H. J. Med. Chem. 1967, 10, 44.
- 2. Synthesis of 7-dimethylamino-6-demethyl-6-deoxytetracycline (minocycline) via 9-nitro-6-demethyl-6-deoxytetracycline. Church R.F.R. et al. J. Org. Chem. 1971, 36, 723.

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