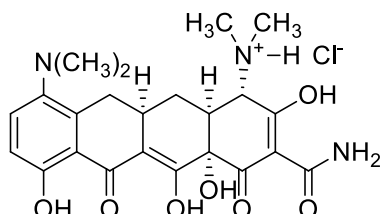


Minocycline hydrochloride

Code No.: **BIA-M1472**

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



Synonyms : Klinomycin, Minocycline chloride, Minomycin, NSC 141993

Specifications

CAS #	: 13614-98-7
Molecular Formula	: C₂₃H₂₈ClN₃O₇
Molecular Weight	: 493.9
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. Good water solubility.

Application Notes

Minocycline hydrochloride is a salt prepared from minocycline, taking advantage of the two basic dimethylamino groups which protonate and readily form a salt from hydrochloric acid solutions. The hydrochloride is the preferred formulation for pharmaceutical 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.

References

1. 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.