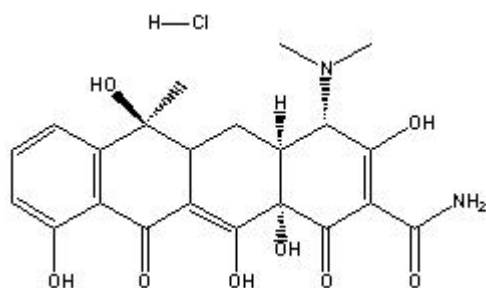


TECHNICAL INFORMATION

Catalog Number: 103011, 194542, 194798

Tetracycline Hydrochloride

Structure:



Molecular Formula: C₂₂H₂₄N₂O₈·HCl

Molecular Weight: 480.9

CAS #: 64-75-5

Synonyms: [4S-(4a, 4aa, 5aa, 6b, 12aa)]- 4-(Dimethylamino)- 1, 4, 4a, 5, 5a, 6-11, 12a- octahydro-3, 6, 10, 12, 12a-pentahydroxy- 6- methyl-1, 11-dioxo-2-naphthacenecarboxamide hydrochloride; Achro; Achromycin; Achromycin V; Ala Tet; Ambracyn; Ambramicina; Bristaciclina; Cefracycline; Criseociclina; Cyclopar; Diocyclin; Helvecyclin; Hostacyclin; Imex; Mediletten; Mephacyclin; Panmycin; Partrex; Polycycline; Purocyclina; Quadracyclin; Remicyclin; Riocyclin; Ro-Cycline; Sanclomycine; Steclin; Sumycin; Supramycin; Sustamycin; Tefilin; Tetrabakat; Tetrabid; Tetrablet; Tetrabon; Tetrachel; Tetracompre; Tetracycl; Tetrakap; Tetralution; Tetramavan; Tetramycin; Tetrosol; Topicycline; Totomycin; Triphacyclin; Unicin; Vetquamycin-324

Physical Description: Yellow crystalline powder

Solubility: Freely soluble in water or 0.1 N HCl (10 mg/ml - clear, bright yellow solution); soluble in methanol, ethanol. Insoluble in ether, hydrocarbons. pH (2% aq soln): ~2.1-2.3.

Activity/Potency: Not less than 900 ug/mg

Description: Acts as an inhibitor of protein synthesis by binding to the 30S subunit and inhibiting binding of aminoacyl-tRNA. Antibiotic substance produced by *Streptomyces spp.* pKa (50% aq DMF): 8.3, 10.2.

Suggested Working Concentration: 10 mg/L

Availability:

Catalog Number	Description	Size
103011	Tetracycline Hydrochloride	5 g 25 g 100 g
194542	Tetracycline Hydrochloride cell culture reagent	1 g 5 g
194798	Tetracycline Hydrochloride, molecular biology reagent, gamma-irradiated	10 mg 20 mg

Also Available:

Catalog Number	Description	Size
103012	Tetracycline Free Base	5 g 25 g 100 g

References:

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- V. N. Dobrynin, et. al., *Tetrahedron Letters* 1962, 901.
- Weiss, et. al., *Antibiot. Chemother.*, **v. 7**, 374 (1957).
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