MP Biomedicals, LLC

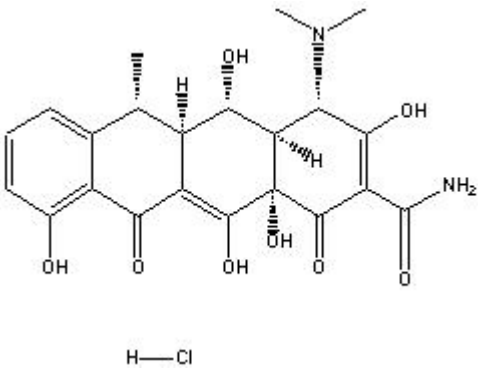
29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530
Fax: 440/337-1180
mailto: biotech@mpbio.com
web: http://www.mpbio.com

TECHNICAL INFORMATION

Catalog Number: 195044
Doxycycline Hydrochloride

Structure:



Molecular Formula: $C_{22}H_{24}N_2O_8 \cdot HCl$
Molecular Weight: 480.9
CAS # 10592-13-9
Synonyms: [4S-(4a,4a,a,5a,5aa,6a,12aa)]- 4-(Dimethylamino)- 1, 4, 4a, 5, 5a, 6, 11, 12a- octahydro-3,5,10,12,12a-pentahydroxy-6-methyl-1, 11-dioxo-2-naphthacenecarboxamide hydrochloride; a-6-Deoxy-5-hydroxytetracycline hydrochloride; a-6-Deoxyoxytetracycline hydrochloride; 5-Hydroxy-a-6-deoxytetracycline hydrochloride; Biocamycin; Doxigalumicina; Doxycycline hyclate; Doxy-II; Ecodox; Hydramycin; Liomycin; Mespafin; Midoxin; Nivocilin; Novadox; Retens; Roximycin; Samecin; Tanamicin; Tecacin; Tetradox; Vibradox; Vibramycin hyclate
Physical Description: Pale yellow powder
Solubility: Soluble in water (50 mg/ml - clear, yellowish to yellowish-green solution). Solutions can be aliquoted and stored at -20°C for up to 3 to 4 months.
Description: An antibiotic - against gram-positive and gram-negative bacteria. More active biologically than the corresponding 6 b-epimer hydrochloride.[1] It is typically used at a concentration of 20 ug/ml and is stable in media at 37°C for approximately 5 days.[2]
References:

– *Merck Index*, **12th Ed.**, No. 3496.
– Perlman, D., "Use of Antibiotics in cell culture media." *Methods in Enzymology: Cell Culture*, Jakoby, W.B. and Pastan, I.H. (eds.), Academic Press: New York, p. 112 (1979).