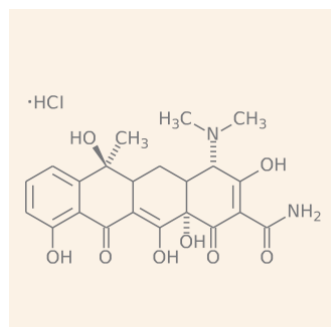


Teracycline Hydrochloride

Molecular structure



Product Description

The tetracyclines consist of a polycyclic ring with differing side chains. They are a broad-spectrum class of antibiotics against aerobes and anaerobes. Members of this class inhibit protein synthesis by binding to the 30S ribosomal subunit thereby blocking the incoming aminoacyl-tRNA from attaching to the acceptor site on the mRNA-ribosome complex. The congener tetracycline is a product of *Streptomyces aureofaciens* fermentation. Tetracyclines are bacteriostatic and their effects are reduced by dilution and by chelation with divalent cations. The tetracyclines are broad-spectrum antibiotics, but resistance to one congener confers resistance to all congeners.

Product Specification

Mode of Action:	Binds to the 30S ribosomal subunit thereby blocking the incoming aminoacyl-tRNA from attaching to the acceptor site on the mRNA-ribosome complex
Conferred Resistance:	A change in cell permeability
Molecular weight:	480.9
Formula:	C ₂₂ H ₂₄ N ₂ O ₈ ·HCl
Appearance:	White crystalline powder
Working Concentration:	10 µg/mL
Storage and Stability:	Frozen - 25°C to -15°C Protect from light

Notes on Preparation: Tetracycline hydrochloride is freely soluble in water, but its potency is reduced at a pH below 2. Also, alkali hydroxides will cause hydrolysis and precipitation of tetracycline. Store stock solutions frozen, protected from light

Ordering information

Cat. No.	Description	Unit Size	Qty/Pk
61-385-RA	Puromycin Dihydrochloride, powder	100 mg	1

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Support

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