

Ciprofloxacin hydrochloride

Product Information

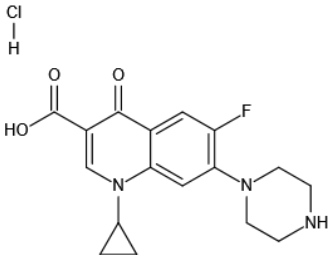
Product Name	Cat#	Size
Ciprofloxacin hydrochloride	60201ES08	5 g
	60201ES25	25 g
	60201ES60	100 g

Product Description

Ciprofloxacin HCl, an analog of Nalidixic Acid, is a highly active fluoroquinolone antibiotic effective against a broad spectrum of bacteria and mycoplasma with few known resistant strains. Ciprofloxacin HCl functions by inhibiting DNA gyrase and topoisomerase IV, enzymes responsible for negative supercoiling of chromosomes and DNA strand separation, thus blocking initiation of bacterial replication. Ciprofloxacin HCl is effective at a low concentration (10 µg/mL) and can effectively eradicate mycoplasma in as little as 12 days. Ciprofloxacin HCl has been used as a plant fungicide. Ciprofloxacin HCl shows a broad spectrum of antibacterial activity against gram positive and gram negative bacteria.

Powder should be prepared in water or buffered media. To prepare a stock solution, add the appropriate amount of powder to distilled deionized water while mixing. Adding water directly to the powder could result in insoluble mixtures that cannot be filtered without losing potency. After ensuring that the mixture is completely solubilized, filter sterilize. If desired, the pH may be adjusted.

Product Properties

Synonyms	CPX, Cetraxal, Ciloxan, Cipro, Bay-09867 hydrochloride
CAS#	93107-08-5
Formula	C ₁₇ H ₁₈ FN ₃ O ₃ ·HCl
Molecular Weight	367.9
Appearance	White to yellowish crystalline powder
Purity	≥ 97.5%
pH (5%, 25°C)	4.5-6.0
Solubility	Soluble in water, and 0.1 M NaOH
Structure	

Shipping and Storage

The product is shipped with ice pack and can be stored at 2-8°C for 2 years. Aqueous stock solutions can be stored at -20°C for 6 months (protect from light) and use it as soon as possible. Avoid repeated freeze-thaw cycles.

Cautions

1. For your safety and health, please wear lab coats and disposable gloves for operation.
2. For research use only.