

Product Data Sheet

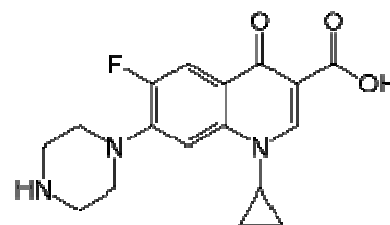
Cat # ABT-100-10	Ciprofloxacin, Monohydrochloride (Pharma Grade)	Size: 10 g
Cat # ABT-100-50	Ciprofloxacin, Monohydrochloride (Pharma Grade)	Size: 50 g (or bulk)

General Information

**Ciprofloxacin** is a synthetic chemotherapeutic antibiotic of the fluoroquinolone drug class. It is a second-generation fluoroquinolone antibacterial. It kills bacteria by interfering with the enzymes that cause DNA to rewind after being copied, which stops DNA and protein synthesis.

Ciprofloxacin is marketed worldwide with over three hundred different brand names. In the United States, Canada, and the UK, it is marketed as Baycip, Ciloxan, Ciflox, Cipro, Cipro XR, Cipro XL, Ciproxin, "Prociflor", and most recently, Proquin. In addition, ciprofloxacin is available as a generic drug under a variety of different brand names and is also available for limited use in veterinary medicine.

Ciprofloxacin was first patented in 1983 by Bayer A.G. and subsequently approved by the United States Food and Drug Administration (FDA) in 1987. Ciprofloxacin has 12 FDA-approved human uses and other veterinary uses, but it is often used for non-approved uses (off-label). Ciprofloxacin interacts with other drugs, herbal and natural supplements, and thyroid medications.



**Molecular Formula:**  
(C<sub>17</sub>H<sub>18</sub>FN<sub>3</sub>O<sub>3</sub>)

**Molecular Weight:**  
331.346 g/mol

A typical certificate of Analyses

Analysis Test		Specification	Results
Description		White or light yellow crystalline powder	White crystalline powder
Identification-HPLC		Peak retention time should be the same as the reference	Complies
Identification-IR		Conform to Standard Spectrum	Complies
Acidity		3.0~4.5	3.5
Clarity and color of solution		Should comply	Complies
Solubility		Water 3.5g/dL Methanol 0.21g/dL Acetic acid 0.14g/dL Ethanol 0.016g/dL	
Water		4.7%-6.7%	5%
Melting point(°C)		255-257 °C	255°C
Loss on drying		≤6.0%	5.0%
Residual Solvents	Chlorobenzene	≤0.036%	Complies
	Ethanol	≤0.5%	Complies
Residue on ignition		≤0.1%	0.08%
Heavy metals		≤20ppm	Complies
Assay(on the dried basis)		≥88.5%	90%
Conclusion		QC Passed	

**Usage:** This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

ABT-100-10

**110531AO**

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