

Product Data Sheet

Cat # ABT-160-010	Levofloxacin, Lactate	Size: 10 g
Cat # ABT-160-100	Levofloxacin, Lactate	Size: 100 g

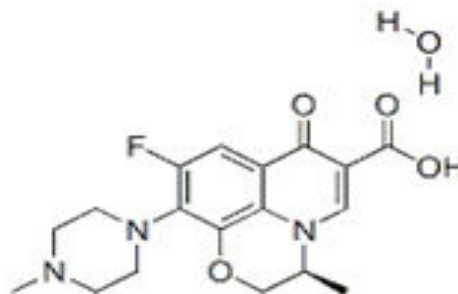
General Information

Levofloxacin is a synthetic chemotherapeutic antibiotic of the fluoroquinolone drug class and is used to treat severe or life-threatening bacterial infections or bacterial infections which have failed to respond to other antibiotic classes. It is sold under various brand names, such as Levaquin and Tavanic, the most common. In form of ophthalmic solutions it is known as Oftaquix, Quixin and Iquix.

Levofloxacin is a chiral fluorinated carboxyquinolone. Investigation of ofloxacin, an older drug that is the racemic mixture, found that the l form [the (-)-(S) enantiomer] is more active. This specific component is levofloxacin.

Levofloxacin is a broad-spectrum antibiotic that is active against both Gram-positive and Gram-negative bacteria. It functions by inhibiting DNA gyrase, a type II topoisomerase, and topoisomerase iv, which is an enzyme necessary to separate replicated DNA, thereby inhibiting cell division.

There continues to be debate as to whether or not this DNA damage is to be considered one of the mechanisms of action concerning the severe and non-abating adverse reactions experienced by some patients following fluoroquinolone therapy.



Molecular Formula:
(C₁₈H₂₁ClFN₃O₄)
Molecular Weight:
397.83 g/mol

Analysis Test	Specification	Results
Description	white to yellowish crystalline powder	white crystalline powder
Purity	>98%	99.3%
Water	<2%	Conform
Heavy Metals	<10 ppm	Conform
Residue on ignition	<0.1%	0.08%
Organic volatile impurities	Meet the requirements	Cnform
Conclusion	QC Passed	

Usage: This item is for LABORATORY RESEARCH USE ONLY. It is not approved by US FDA for use in humans or animals. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

ABT-160-010

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