



# Sarafloxacin hydrochloride PRODUCT DATA SHEET

issue date 07/23/2018

<b>Product Name:</b>	Sarafloxacin hydrochloride
<b>Product Number:</b>	S003
<b>CAS Number:</b>	91296-87-6
<b>Molecular Formula:</b>	$C_{20}H_{17}F_2N_3O_3 \cdot HCl \cdot 3H_2O$
<b>Molecular Weight:</b>	475.87
<b>Form:</b>	Powder
<b>Source:</b>	Synthetic
<b>Storage Conditions:</b>	2-8°C
<b>Description:</b>	Sarafloxacin HCl is a water soluble fluoroquinolone antibiotic.
<b>Mechanism of Action:</b>	Fluoroquinolone antibiotics target bacterial DNA gyrase, an enzyme which reduces DNA strain during replication. Because DNA gyrase is required during DNA replication, subsequent DNA synthesis and ultimately cell division is inhibited.
<b>Spectrum:</b>	Sarafloxacin HCl is a broad spectrum antibiotic targeting a wide range of gram positive and gram negative bacteria.
<b>References:</b>	Wolfson, John S., and David C. Hooper. "The Fluoroquinolones: Structures, Mechanisms of Action and Resistance, and Spectra of Activity in Vitro." American Society for Microbiology 4th ser. 28 (1985): 581-86.

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