



Sitafloxacin sesquihydrate PRODUCT DATA SHEET

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Product Name:	Sitafloxacin sesquihydrate
Product Number:	S107
CAS Number:	163253-35-8
Molecular Formula:	$C_{19}H_{18}ClF_2N_3O_3 \cdot 1.5H_2O$
Molecular Weight:	436.84
Storage Conditions:	-20°C
Description:	Sitafloxacin sesquihydrate is a broad-spectrum fluoroquinolone antibiotic that is particularly active against gram-positive bacteria such as pneumococci.
Mechanism of Action:	Sitafloxacin has been shown to have a dual targeted mechanism of action. Other antibacterial quinolones target DNA gyrase or topoisomerase IV, but sitafloxacin targets both at a very similar rate. This double-target approach lowers the possibility of resistant strains.
References:	Onodera, Y., Uchida, Y., Tanaka, M., & Sato, K. (1999). Dual inhibitory activity of sitafloxacin (DU-6859a) against DNA gyrase and topoisomerase IV of <i>Streptococcus pneumoniae</i> . <i>Journal Of Antimicrobial Chemotherapy</i> , 44(4), 533-536. http://dx.doi.org/10.1093/jac/44.4.533

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