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PRODUCT INFORMATION



Tosufloxacin (tosylate)

Item No. 21427

CAS Registry No.: 115964-29-9

Formal Name: 7-(3-amino-1-pyrrolidiny)-1-(2,4-difluorophenyl)-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid 4-methylbenzenesulfonate

MF: $C_{19}H_{15}F_3N_4O_3 \bullet C_7H_8O_3S$

FW: 576.5

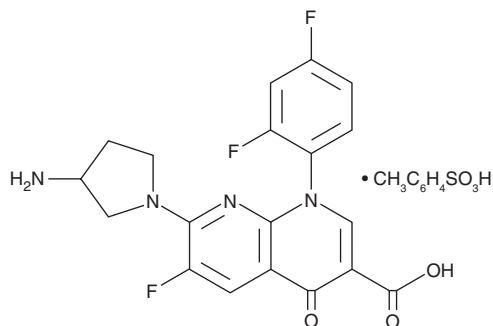
Purity: $\geq 95\%$

UV/Vis.: λ_{max} : 221, 269, 341 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

Tosufloxacin (tosylate) is supplied as a crystalline solid. A stock solution may be made by dissolving the tosylate in the solvent of choice. Tosufloxacin (tosylate) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of tosylate in DMSO and DMF is approximately 30 mg/ml, it is slightly soluble in ethanol.

Tosufloxacin (tosylate) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, tosylate should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Tosufloxacin (tosylate) has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Tosufloxacin is a fluoroquinolone antibiotic. It has activity against diverse aerobic and anaerobic bacteria *in vitro*.^{1,2} Tosufloxacin is also effective against bacterial persisters, showing significant activity against *S. aureus* and uropathogenic *E. coli* persisters.^{3,4} As with many other quinolones, tosylate use can be associated with significant side effects.⁵

References

1. Espinoza, A.M., Chin, N.-X., Novelli, A., *et al.* Comparative in vitro activity of a new fluorinated 4-quinolone, T-3262 (A-60969). *Antimicrob. Agents Chemother.* **32**(5), 663-670 (1988).
2. Fernandes, P.B., Chu, D.T.W., Swanson, R.N., *et al.* A-61827 (A-60969), a new fluoronaphthyridine with activity against both aerobic and anaerobic bacteria. *Antimicrob. Agents Chemother.* **32**(1), 27-32, (1988).
3. Niu, H.Y., Cui, P., Yee, R., *et al.* A clinical drug library screen identifies tosylate as being highly active against *Staphylococcus aureus* persisters. *Antibiotics (Basel)* **4**(3), 329-336 (2015).
4. Niu, H.Y., Cui, P., Shi, W., *et al.* Identification of Anti-Persister Activity against Uropathogenic *Escherichia coli* from a Clinical Drug Library. *Antibiotics (Basel)* **4**(2), 179-187 (2015).
5. Rubinstein, E. History of quinolones and their side effects. *Chemotherapy* **47**(Suppl. 3), 44-48 (2001).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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