

Gatifloxacin

Catalog Number :1125931

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: AM-1155, gatifloxacin, Tequin, Zymar

Chemical Name: 1-cyclopropyl-6-fluoro-8-methoxy-7-(3-methylpiperazin-1-yl)-4-oxoquinoline-3-carboxylic acid

Molecular Formula: C₁₉H₂₂FN₃O₄

Molecular Weight: 375.4

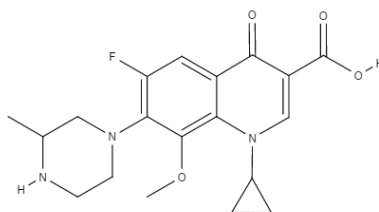
CAS Number: 112811-59-3

Purity: ≥98%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

Gatifloxacin is a fluoroquinolone antibiotic that inhibits bacterial DNA gyrase and topoisomerase IV. It is potent against gram positive and gram negative bacteria and is reported to promote self-renewal in cultured embryonic stem cells.

Preparation & Storage

Soluble in organic solvents such as DMSO.

References

1. Perry, C. M., Balfour, J. A. B., Lamb, H. M. (1999). Gatifloxacin.; *Drugs*, 58(4), 683-696.
2. Fung-Tomc, J., Minassian, B., Kolek, B., Washo, T., Huczko, E., Bonner, D. (2000). In vitro antibacterial spectrum of a new broad-spectrum 8-methoxy fluoroquinolone, gatifloxacin.; *Journal of Antimicrobial Chemotherapy*, 45(4), 437-446.
3. Desbordes, S. C., Placantonakis, D. G., Ciro, A., Socci, N. D., Lee, G., Djaballah, H., Studer, L. (2008). High-throughput screening assay for the identification of compounds regulating self-renewal and differentiation in human embryonic stem cells.; *Cell stem cell*, 2(6), 602-612.