

Datasheet

Prulifloxacin (NM441)

Product Name	Prulifloxacin (NM441)
Catalogue Number	BSV-S2071
Chemical Formula	C ₂₁ H ₂₀ FN ₃ O ₆ S
Function	Antibacterial agent
CAS No.:	123447-62-1

Description:

Prulifloxacin, the prodrug of ulifloxacin, is a broad-spectrum oral fluoroquinolone antibacterial agent.

Product Details:

Target: bacteria

Chemical name: 6-fluoro-1-methyl-7-[4-[(5-methyl-2-oxo-1,3-dioxol-4-yl)methyl]piperazin-1-yl]-4-oxo-1*H*-[1,3]thiazeto[3,2-*a*]quinoline-3-carboxylic acid

Formula: C₂₁H₂₀FN₃O₆S

Molecular weight: 461.46

Purity: 99.78 %

Solubility: 11 mg/mL (DMSO)

Storage: 3 years -20°C powder, 2 years -80°C in solvent

Regulatory/ Restrictions: For laboratory use only.

Preparing stock solutions:

Concentration/ Mass	1 mg	5 mg	10 mg
1 mM	2.1670 mL	10.8352 mL	21.6704 mL
5 mM	0.4334 mL	2.1670 mL	4.3341 mL

10 mM	0.2167 mL	1.0835 mL	2.1670 mL
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Biological activity:

Prulifloxacin is an older synthetic antibiotic of the fluoroquinolone class. It is a prodrug which is metabolized in the body to the active compound ulifloxacin. It has been approved for the treatment of uncomplicated and complicated urinary tract infections, community-acquired respiratory tract infections in Italy and gastroenteritis, including infectious diarrheas.