



Product Information

Antifection inhibitor Cefmenoxime hydrochloride, Purity ≥98%

Cat. No.: X24-07-ZQ041

Size: 100 mg; 500 mg

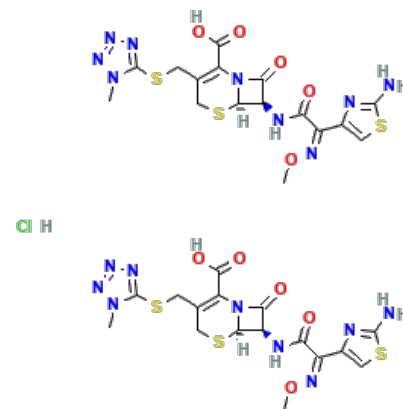
MDL: MFCD01750403

CAS Number: 75738-58-8

Compound CID: 11954009

Synonym: 75738-58-8; Antifection inhibitor; SCE 1365 hydrochloride

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Cefmenoxime hydrochloride, soluble in DMSO and insoluble in ethanol and water, has strong immunosuppressant properties. It targets Enterobacteriaceae.
Molecular Weight	1059.6
Molecular Formula	C ₃₂ H ₃₅ ClN ₁₈ O ₁₀ S ₆
Targets	Enterobacteriaceae
IUPAC Name	(6 <i>R</i> ,7 <i>R</i>)-7-[[[(2 <i>Z</i>)-2-(2-amino-1,3-thiazol-4-yl)-2-methoxyiminoacetyl]amino]-3-[(1-methyltetrazol-5-yl)sulfanylmethyl]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid;hydrochloride
InChI	InChI=1S/2C16H17N9O5S3.ClH/c2*1-24-16(20-22-23-24)33-4-6-3-31-13-9(12(27)25(13)10(6)14(28)29)19-11(26)8(21-30-2)7-5-32-15(17)18-7;/h2*5,9,13H,3-4H2,1-2H3,(H2,17,18)(H,19,26)(H,28,29);1H/b2*21-8-;/t2*9-,13-;/m11./s1
InChI Key	MPTNDTIREFCQLK-UNVJPQNDSA-N
Canonical SMILES	CN1C(=NN=N1)SCC2=C(N3C(C(C3=O)NC(=O)C(=NOC)C4=CSC(=N4)N)SC2)C(=O)O.CN1C(=NN=N1)SCC2=C(N3C(C(C3=O)NC(=O)C(=NOC)C4=CSC(=N4)N)SC2)C(=O)O.Cl
Isomeric SMILES	CN1N=NN=C1SCC2=C(N3C(=O)[C@H]([C@H]3SC2)NC(=O)/C(=NOC)/C4=CSC(=N4)N)C(=O)O.CN1N=NN=C1SCC2=C(N3C(=O)[C@H]([C@H]3SC2)NC(=O)/C(=NOC)/C4=CSC(=N4)N)C(=O)O.Cl
Form	Lyophilized powder
Purity	≥98%
Solubility	DMSO: 65 mg/mL (61.34 mM); Water: Insoluble; Ethanol: Insoluble
Identity	Confirmed by NMR/HPLC/MS.



Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
Quality Level	Research grade
Applications	Cefmenoxime hydrochloride is a cephalosporin antibiotic used to investigate bacterial wall synthesis inhibition, effective against Gram-negative and some Gram-positive bacteria.
Storage	Store at -20°C, and keep desiccated.
