



Product Information

Antifection inhibitor Cefuroxime axetil, Purity $\geq 98\%$

Cat. No.: X24-07-ZQ093

Size: 5 mg; 10 mg; 50 mg

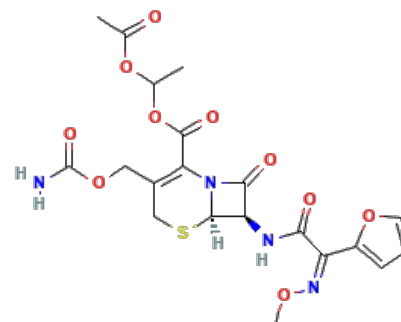
MDL: MFCD00864991

CAS Number: 64544-07-6

Compound CID: 6321416

Synonym: 64544-07-6; Antifection inhibitor; Cefuroxime axetil; SN 407

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



Product Information

Description	Cefuroxime axetil, soluble in DMSO, has strong immunosuppressant properties. It targets β -lactam.
Molecular Weight	510.47
Molecular Formula	$C_{20}H_{22}N_4O_{10}S$
Targets	β -lactam
IUPAC Name	1-Acetyloxyethyl (6 <i>R</i> ,7 <i>R</i>)-3-(carbamoyloxymethyl)-7-[[[(2 <i>Z</i>))-2-(furan-2-yl)-2-methoxyiminoacetyl]amino]-8-oxo -5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate
InChI	InChI=1S/C20H22N4O10S/c1-9(25)33-10(2)34-19(28)15-11(7-32-20(21)29)8-35-18-14(17(27)24(15))18)22-16(26)13(23-30-3)12-5-4-6-31-12/h4-6,10,14,18H,7-8H2,1-3H3,(H2,21,29)(H,22,26)/b23-13-/ t10?,14-,18-/m1/s1
InChI Key	KEJCWVGMRLCZQQ-YJBYXUATSA-N
Canonical SMILES	CC(OC(=O)C)OC(=O)C1=C(CSC2N1C(=O)C2NC(=O)C(=NOC)C3=CC=CO3)COC(=O)N
Isomeric SMILES	CC(OC(=O)C)OC(=O)C1=C(CS[C@H]2N1C(=O)[C@H]2NC(=O)/C(=N\OC)/C3=CC=CO3)COC(=O) N
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 89 mg/mL (174.34 mM)
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	Cefuroxime axetil is applied in the investigation of bacterial cell wall synthesis inhibition, serving as a broad-spectrum antibiotic in combatting bacterial infections.
Storage	Store at -20°C, and keep desiccated.
