



Product Information

Antifection inhibitor Cefamandole nafate, Purity $\geq 98\%$

Cat. No.: X24-07-ZQ087

Size: 100 mg; 500 mg

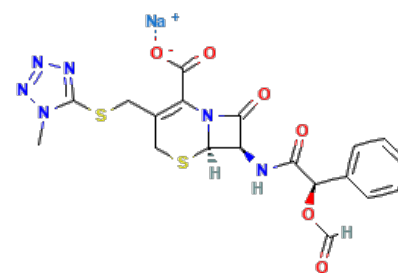
MDL: MFCD00864877

CAS Number: 42540-40-9

Compound CID: 23665731

Synonym: 42540-40-9; Antifection inhibitor; Cefamandole Nafate; Cephamandole nafate; Cemandil sodium salt; Cefamandol nafato; O-Formylcefamandole sodium; Mandol

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



Product Information

Description	Cefamandole nafate, soluble in DMSO and water and insoluble in ethanol, has strong immunosuppressant properties.
Molecular Weight	512.49
Molecular Formula	C ₁₉ H ₁₇ N ₆ NaO ₆ S ₂
IUPAC Name	Sodium;(6 <i>R</i> ,7 <i>R</i>)-7-[[[(2 <i>R</i>)-2-formyloxy-2-phenylacetyl]amino]-3-[(1-methyltetrazol-5-yl)sulfanylmethyl]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate
InChI	InChI=1S/C19H18N6O6S2.Na/c1-24-19(21-22-23-24)33-8-11-7-32-17-12(16(28)25(17)13(11)18(29)30)20-15(27)14(31-9-26)10-5-3-2-4-6-10;/h2-6,9,12,14,17H,7-8H2,1H3,(H,20,27)(H,29,30);/q;+1/p-1/t12-,14-,17-;/m1./s1
InChI Key	ICZOIXFFVKYXOM-YCLOEFEOSA-M
Canonical SMILES	CN1C(=NN=N1)SCC2=C(N3C(C(C3=O)NC(=O)C(C4=CC=CC=C4)OC(=O)SC2)C(=O)[O-].[Na+]
Isomeric SMILES	CN1C(=NN=N1)SCC2=C(N3[C@@H]([C@@H](C3=O)NC(=O)[C@@H](C4=CC=CC=C4)OC(=O)SC2)C(=O)[O-].[Na+]
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 93 mg/mL (181.46 mM); Water: 93 mg/mL (181.46 mM); 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

Cefamandole nafate is used in research for its antibacterial activity, particularly in studying the cephalosporin class's bactericidal effects against Gram-positive and Gram-negative bacteria.

Storage

Store at -20°C, and keep desiccated.