

## Product Information

### Antifection inhibitor Cefpiramide sodium, Purity $\geq 98\%$

**Cat. No.:** X24-07-ZQ106

**Size:** 10 mg; 50 mg; 100 mg; 200 mg

**CAS Number:** 74849-93-7

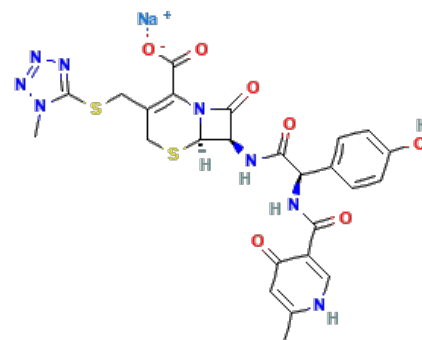
**Compound CID:** 23663969

**Synonym:** 74849-93-7; Antifection inhibitor; Cefpiramide Sodium; SM-1652;

UNII-137KB7GYKB; WY-44635; cefpiramide; sodium salt; SM 1652; SM-1652;

Sumcefal

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



#### Product Information

<b>Description</b>	Cefpiramide sodium, soluble in DMSO and water and insoluble in ethanol, has strong immunosuppressant properties. It targets $\beta$ -lactam.
<b>Molecular Weight</b>	634.62
<b>Molecular Formula</b>	$C_{25}H_{23}N_8NaO_7S_2$
<b>Targets</b>	$\beta$ -lactam
<b>IUPAC Name</b>	Sodium;(6 <i>R</i> ,7 <i>R</i> )-7-[[[(2 <i>R</i> )-2-(4-hydroxyphenyl)-2-[(6-methyl-4-oxo-1 <i>H</i> -pyridine-3-carbonyl)amino]acetyl]amino]-3-[(1-methyltetrazol-5-yl)sulfanylmethyl]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate
<b>InChI</b>	InChI=1S/C25H24N8O7S2.Na/c1-11-7-16(35)15(8-26-11)20(36)27-17(12-3-5-14(34)6-4-12)21(37)28-18-22(38)33-19(24(39)40)13(9-41-23(18)33)10-42-25-29-30-31-32(25)2;/h3-8,17-18,23,34H,9-10H2,1-2H3,(H,26,35)(H,27,36)(H,28,37)(H,39,40);/q;+1/p-1/t17-,18-,23-;/m1./s1
<b>InChI Key</b>	RIWWMGQFMUUYIY-ALLHVENQSA-M
<b>Canonical SMILES</b>	<chem>CC1=CC(=O)C(=CN1)C(=O)NC(C2=CC=C(C=C2)O)C(=O)NC3C4N(C3=O)C(=C(CS4)CSC5=NN=NN5C)C(=O)[O-].[Na+]</chem>
<b>Isomeric SMILES</b>	<chem>CC1=CC(=O)C(=CN1)C(=O)N[C@H](C2=CC=C(C=C2)O)C(=O)N[C@H]3[C@@H]4N(C3=O)C(=C(CS4)CSC5=NN=NN5C)C(=O)[O-].[Na+]</chem>
<b>Form</b>	Lyophilized powder
<b>Purity</b>	$\geq 98\%$
<b>Solubility</b>	DMSO: 96 mg/mL (151.27 mM); Water: 96 mg/mL (151.27 mM); Ethanol: Insoluble
<b>Identity</b>	Confirmed by NMR/HPLC/MS.



<b>Stability</b>	The product is stable for three years when stored at the recommended temperature in lyophilized powder.
<b>Quality Level</b>	Research grade
<b>Applications</b>	Cefpiramide sodium is used to examine its capability to inhibit bacterial cell wall synthesis, acting as a broad-spectrum cephalosporin antibiotic.
<b>Storage</b>	Store at -20°C, and keep desiccated.