



Product Information

Antifection inhibitor Ertapenem sodium, Purity $\geq 98\%$

Cat. No.: X24-07-ZQ112

Size: 10 mg; 25 mg; 50 mg; 100 mg

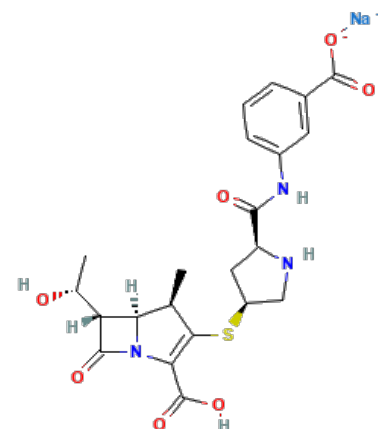
CAS Number: 153773-82-1

Compound CID: 23674512

Synonym: 153773-82-1; Antifection inhibitor; L-749345; L749345; L 749345; MK-826;

MK 826; MK826

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



Product Information

Description	Ertapenem sodium, soluble in DMSO and water and insoluble in ethanol, has strong immunosuppressant properties. It targets β -lactam.
Molecular Weight	497.5
Molecular Formula	$C_{22}H_{24}N_3NaO_7S$
Targets	β -lactam
IUPAC Name	Sodium;3-[[[(2S,4S)-4-[[[(4R,5S,6S)-2-carboxy-6-[(1R)-1-hydroxyethyl]-4-methyl-7-oxo-1-azabicyclo[3.2.0]hept-2-en-3-yl]sulfanyl]pyrrolidine-2-carbonyl]amino]benzoate
InChI	InChI=1S/C22H25N3O7S.Na/c1-9-16-15(10(2)26)20(28)25(16)17(22(31)32)18(9)33-13-7-14(23-8-13)19(27)24-12-5-3-4-11(6-12)21(29)30;/h3-6,9-10,13-16,23,26H,7-8H2,1-2H3,(H,24,27)(H,29,30)(H,31,32);/q;+1/p-1/t9-,10-,13+,14+,15-,16-;/m1./s1
InChI Key	ZXNAQFZBWUNWJM-HRXMHBOMSA-M
Canonical SMILES	<chem>CC1C2C(C(=O)N2C(=C1SC3CC(NC3)C(=O)NC4=CC=CC(=C4)C(=O)[O-])C(=O)O)C(C)O.[Na+]</chem>
Isomeric SMILES	<chem>C[C@@H]1[C@@H]2[C@H](C(=O)N2C(=C1S[C@H]3C[C@H](NC3)C(=O)NC4=CC=CC(=C4)C(=O)[O-])C(=O)O)[C@@H](C)O.[Na+]</chem>
Form	Lyophilized powder
Purity	$\geq 98\%$
Solubility	DMSO: 97 mg/mL (194.97 mM); Water: 97 mg/mL (194.97 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	Ertapenem sodium is used to research its efficacy against a wide range of bacteria, acting by disrupting bacterial cell wall synthesis as a beta-lactam antibiotic.
Storage	Store at -20°C, and keep desiccated.
