

Product Information

Antifection inhibitor Imipenem, Purity $\geq 98\%$

Cat. No.: X24-06-ZQ999

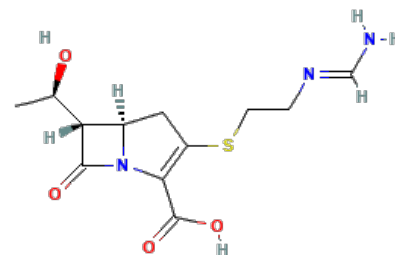
Size: 10 mg; 25 mg; 100 mg; 200 mg

CAS Number: 64221-86-9

Compound CID: 104838

Synonym: 64221-86-9; Antifection inhibitor

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



Product Information

Description	Imipenem has strong immunosuppressant properties.
Molecular Weight	299.34
Molecular Formula	C ₁₂ H ₁₇ N ₃ O ₄ S
IUPAC Name	(5 <i>R</i> ,6 <i>S</i>)-3-[2-(aminomethylideneamino)ethylsulfanyl]-6-[(1 <i>R</i>)-1-hydroxyethyl]-7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid
InChI	InChI=1S/C12H17N3O4S/c1-6(16)9-7-4-8(20-3-2-14-5-13)10(12(18)19)15(7)11(9)17/h5-7,9,16H,2-4H2,1H3,(H2,13,14)(H,18,19)/t6-,7-,9-/m1/s1
InChI Key	ZSKVGTPCRGIANV-ZXFLCMHBSA-N
Canonical SMILES	CC(C1C2CC(=C(N2C1=O)C(=O)O)SCCN=CN)O
Isomeric SMILES	C[C@H]([C@@H]1[C@H]2CC(=C(N2C1=O)C(=O)O)SCCN=CN)O
Form	Lyophilized powder
Purity	$\geq 98\%$
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	Imipenem serves as a broad-spectrum beta-lactam antibiotic for research on bacterial infections, particularly to study its efficacy against resistant bacterial strains.
Storage	Store at -20°C, and keep desiccated.



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