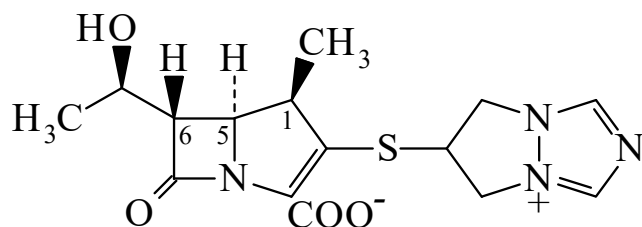




>>Entry Name: Biapenem, INN, USAN

Synonym(s): 6-[[2-Carboxy-6-(1-hydroxyethyl)-4-methyl-7-oxo-1-azabicyclo[3.2.0]hept-2-en-3-yl]thio]-6,7-dihydro-5H-pyrazolo[1,2-*a*][1,2,4]triazol-4-ium inner salt, 9Cl.
LJC 10627. CL 186815



CAS Registry Number: 120410-24-4

Related CAS Registry Numbers(s): 103939-78-2

Molecular Formula: C₁₅H₁₈N₄O₄S

Molecular Weight: 350.398

Accurate Mass: 350.104876

Percentage Composition: C 51.42%; H 5.18%; N 15.99%; O 18.26%; S 9.15%

Use/Importance: Antibacterial agent

Physical Description: Pale yellow amorph. powder

Optical Rotation: $[\alpha]_D^{20} -32.9$ (c, 0.5 in H₂O)

References:

- Eur. Pat.*, 1988, *Lederle*, 289 801; *CA*, **110**, 231328u, (*synth. pharmacol*)
Petersen, P.J. *et al.*, *Antimicrob. Agents Chemother.*, 1991, **35**, 203, (*pharmacol*)
Hikida, M. *et al.*, *Antimicrob. Agents Chemother.*, 1992, **36**, 481, (*metab*)
Nagao, Y. *et al.*, *J.O.C.*, 1992, **57**, 4243, (*synth. ir, pmr*)
Malanoski, G.J. *et al.*, *Antimicrob. Agents Chemother.*, 1993, **37**, 2009, (*activity*)
Hikida, M. *et al.*, *Arzneim.-Forsch.*, 1993, **43**, 71, (*pharmacol*)
Kumagai, T. *et al.*, *Heterocycles*, 1993, **36**, 1729, (*synth*)
Wildonger, K.J. *et al.*, *J. Antibiot.*, 1993, **46**, 1866, (*synth*)
Berks, A.H., *Tetrahedron*, 1996, **52**, 331-375, (*rev. synth*)