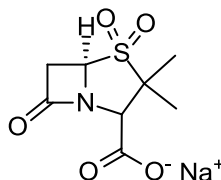


Sulbactam sodium

Code No.: **BIA-S1565**

Pack sizes: **5 mg, 25 mg**



Synonyms : Penicillanic acid 1,1-dioxide sodium

Specifications

CAS #	: 68373-14-8
Molecular Formula	: C₈H₁₀NNaO₅S
Molecular Weight	: 255.2
Source	: Semi-synthetic
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Sulbactam sodium is a semi-synthetic penem antibiotic formed by the oxidation of penicillanic acid to its sulfone and was invented by Barth at Pfizer in 1978. Sulbactam sodium is a weak antibiotic but its action as an irreversible inhibitor of β -lactamase is exploited to block the degradation of other penicillin derivatives. Sulbactam acts as a synergist with cephalosporins and penicillins against Gram positive bacteria and is used commercially in combination with ampicillin.

References

1. Penicillanic acid 1,1-dioxides as beta-lactamase inhibitors. Barth W.E. US Patent 41,234,579 1980.
2. CP-45,899 in combination with penicillin or ampicillin against penicillin-resistant Staphylococcus, Haemophilus influenzae, and Bacteroides. Retsema J.A. et al., Antimicrob. Agents Chemother. 1980, 17, 615.
3. Sulbactam/Ampicillin. A review of its antibacterial activity, pharmacokinetic properties and therapeutic use. Campoli-Richards D.M. and Brogden R.N. Drugs 1987, 33, 577.