



LKT Laboratories, Inc.

## Piperacillin Sodium

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### Product Information

**Product ID** P3463

**CAS No.** 59703-84-3

**Chemical Name** [[2S-[2 $\alpha$ ,5 $\alpha$ ,6B(S\*)]]-6-[[[(4-ethyl-2,3-dioxo-1-piperazinyl)carbonyl]amino]-phenylacetyl]amino]-3,3-dimethyl-7-oxo-4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, monosodium salt

**Synonym** Pentacillin, Pipracil, CL 227193, Isipen, T-1220.

**Formula** C<sub>23</sub>H<sub>26</sub>N<sub>5</sub>O<sub>7</sub>SNa

**Formula Wt.** 539.54

**Melting Point** 183-185°C (dec)

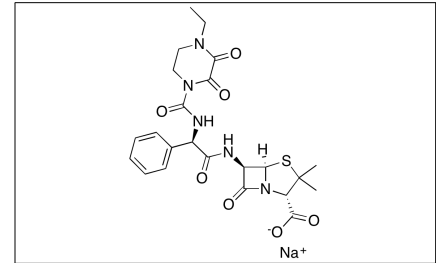
**Purity** ≥95%

**Solubility** Soluble in water and alcohols.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Piperacillin is a  $\beta$ -lactam antibiotic that inhibits bacterial cell wall synthesis. Piperacillin is often paired with a  $\beta$ -lactamase inhibitor such as Tazobactam, improving its antibacterial efficacy.



### Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
P3463	1 g	\$86.50
P3463	5 g	\$361.80
P3463	10 g	\$620.90

**References** Fernández-Canigia L, Litterio M, Legaria MC, et al. First national survey of antibiotic susceptibility of the Bacteroides fragilis group: emerging resistance to carbapenems in Argentina. Antimicrob Agents Chemother. 2012 Mar;56(3):1309-14. PMID: 22232282.

Bonfiglio G, Laksai Y, Franceschini N, et al. In vitro activity of piperacillin/tazobactam against 615 Pseudomonas aeruginosa strains isolated in intensive care units. Chemotherapy. 1998 Sep-Oct;44(5):305-12. PMID: 9732144.

Kadima TA, Weiner JH. Mechanism of suppression of piperacillin resistance in enterobacteria by tazobactam. Antimicrob Agents Chemother. 1997 Oct;41(10):2177-83. PMID: 9333044.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.