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## Product Data Sheet

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Product Name: Ceftobiprole medocaril sodium

Cat. No.: GC68005

### Chemical Properties

Cas. No. 252188-71-9

Formula  $C_{26}H_{25}N_8NaO_{11}S_2$

M.Wt 712.64

Solubility DMSO : 250 mg/mL (350.81 mM; Need ultrasonic)

Storage 4°C, away from moisture and light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

### Background

Ceftobiprole medocaril (BAL5788) sodium is the parenteral prodrug of Ceftobiprole . Ceftobiprole is a parenteral pyrrolidinone cephalosporin. Ceftobiprole is a broad-spectrum cephalosporin with high levels of in vitro activity against methicillin- (MRSA) and vancomycin-resistant staphylococci (VRSA) and penicillin-resistant streptococci. Ceftobiprole also inhibits gram-positive and gram-negative pathogens<sup>[1][2]</sup>.

Ceftobiprole medocaril (s.c.; 3 × q12h; total daily doses of BAL9141 equivalents, 2.1, 4.2, or 8.4 mg/kg) causes ten-day cumulative survival rates ranged from 57 to 100% for female Swiss albino mice (body weight, 20 to 22 g) infected Pen<sup>r</sup> Cro<sup>S</sup> Ctx<sup>S</sup> strain P-15986<sup>[1]</sup>.

Ceftobiprole medocaril (10, 40, 160 mg/kg; single dose; sc) has T<sub>1/2s</sub> from 20 min to 31 min, as the dose rose from 40 mg/kg to 160 mg/kg. The AUC/dose values for the escalating single doses ranges from 0.585 to 1.33, and the C<sub>max</sub>/dose values decreases from 1.08 to 0.90 in neutropenic thigh-infected mice<sup>[2]</sup>.

[1]. E Azoulay-Dupuis, et al. Efficacy of BAL5788, a prodrug of cephalosporin BAL9141, in

**Caution: Product has not been fully validated for medical applications. For research use only.**

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a mouse model of acute pneumococcal pneumonia. Antimicrob Agents Chemother. 2004 Apr;48(4):1105-11.

[2]. W A Craig, et al. In vivo pharmacodynamics of ceftobiprole against multiple bacterial pathogens in murine thigh and lung infection models. Antimicrob Agents Chemother. 2008 Oct;52(10):3492-6.

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