



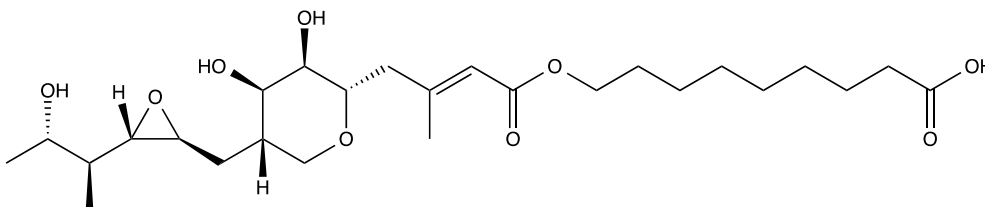
## Catalog # 10-1101

### Mupirocin

CAS# 12650-69-0

Pseudomonic acid A

Lot # X103834



Mupirocin is a topical antibiotic/antibacterial.<sup>1</sup> It inhibits isoleucyl-tRNA synthase. High level mupirocin resistance was found in 8.2% of *Staphylococcus aureus* and 15.6% of coagulase-negative *staphylococci* with high level resistance being more common in methicillin-sensitive *S. aureus* in comparison with methicillin-resistant *S. aureus*.<sup>2</sup>

- 1) Sutherland *et al.* (1985), *Antibacterial activity of mupirocin (pseudomonic acid), a new antibiotic for topical use*; Antimicrob. Agents Chemother., **27** 495
- 2) Rudresh *et al.* (2015), *Prevalence of Mupirocin Resistance Among Staphylococci, its Clinical Significance and Relationship to Clinical Use*; J. Lab. Physicians, **7** 103

### PHYSICAL DATA

|                        |                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Molecular Weight:      | 500.63                                                                                                                                                                |
| Molecular Formula:     | C <sub>26</sub> H <sub>44</sub> O <sub>9</sub>                                                                                                                        |
| Purity:                | >98% by TLC                                                                                                                                                           |
|                        | NMR: (Conforms)                                                                                                                                                       |
| Solubility:            | DMSO (up to 20 mg/ml)                                                                                                                                                 |
| Physical Description:  | Hygroscopic White solid                                                                                                                                               |
| Storage and Stability: | Store as supplied at -20°C for up to 1 year from the date of purchase. Protect from exposure to moisture. Solutions in DMSO may be stored at -20°C for up to 1 month. |

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.