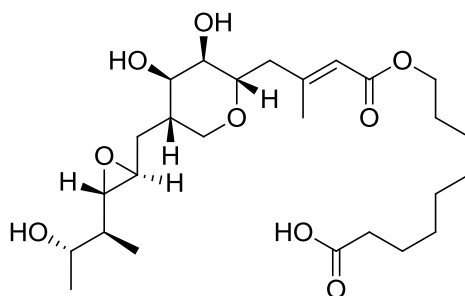


## Pseudomonic acid

Code No.: **BIA-P1206**

Pack sizes: **25 mg, 100 mg**



Synonyms : Mupirocin, Bactroban, Eismycin, BRL 4910A, Y 11633

## Specifications

CAS #	: 12650-69-0
Molecular Formula	: $C_{26}H_{44}O_9$
Molecular Weight	: 500.6
Source	: <i>Pseudomonas fluorescens</i>
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

## Application Notes

Pseudomonic acid is a potent antibiotic produced by *Pseudomonas fluorescens*, reported by Fuller et al., in 1971. Pseudomonic acid has broad spectrum activity against Gram positive bacteria and was approved for topical human use in 1985. Pseudomonic acid acts as a potent and selective inhibitor of isoleucyl-tRNA synthetase.

## References

1. Pseudomonic acid: an antibiotic produced by *Pseudomonas fluorescens*. Fuller A.T. et al., Nature 1971, 234, 416.
2. Antibacterial activity of mupirocin (pseudomonic acid), a new antibiotic for topical use. Sutherland R., Antimicrob Agents Chemother. 1985, 27, 495.
3. Inhibition of isoleucyl-transfer ribonucleic acid synthetase in *Echerichia coli* by pseudomonic acid. Hughes J. & Mellows G., Biochem. J. 1978, 176, 305.