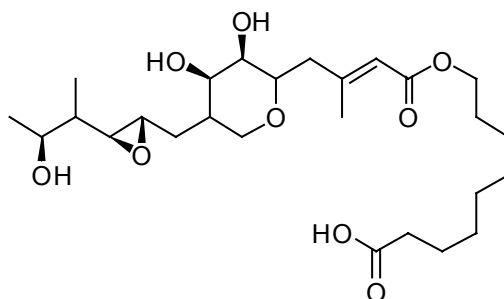


Pseudomonic acid

Code: **BIA-P1206**

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



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

Specifications

CAS # : **12650-69-0**
Molecular Formula : **C₂₆H₄₄O₉**
Molecular Weight : **500.6**
Source : ***Pseudomonas fluorescens* MST-AS5326**
Appearance : **White solid**
Purity : **> 95%**
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 *Escherichia coli* by pseudomonic acid. Hughes J. & Mellows G., Biochem. J. 1978, 176, 305.