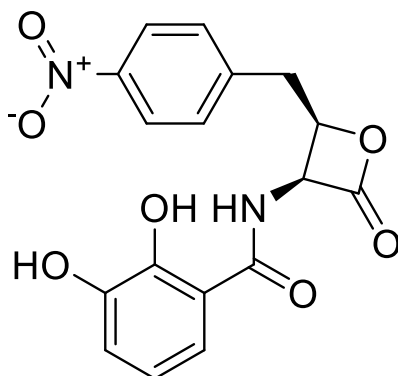


Obafluorin

Code No.: **BIA-O2936**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : (+)-Obafluorin

Specifications

CAS #	: 92121-68-1
Molecular Formula	: C ₁₇ H ₁₄ N ₂ O ₇
Molecular Weight	: 358.3
Source	: <i>Pseudomonas fluorescens</i>
Appearance	: Grey solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Obafluorin is a β -lactone antibiotic produced by *Pseudomonas fluorescens* discovered by researchers at the Squibb Institute in 1984. Obafluorin is weakly active against Gram positive and Gram negative organisms, with a zone of inhibition against *S. aureus* of 7.4 – 8.7 mm, *E. coli* of 10.5 – 13.5 mm, *E. cloacae* of 9.3 mm, *P. rettgeri* of 7.7 mm and *P. aeruginosa* of 9.1mm at 10 μ g/mL. Obafluorin is susceptible to hydrolysis by β -lactamases. Biosynthetically, obafluorin is catalysed by a rare non-ribosomal peptide synthetase.

References

1. Obafluorin, a novel β -lactone produced by *Pseudomonas fluorescens*. Taxonomy, fermentation and biological properties. Well J.S. et al. J Antibiot 1984, 37, 802.
2. The structural basis of N-acyl- α -amino- β -lactone formation catalyzed by a nonribosomal peptide synthetase. Kreitler D.F. Nature Comm 2019, 10, 1.