
Product Data Sheet

Product Name: Enterocin

Cat. No.: GC10193

Chemical Properties

Cas. No. 59678-46-5

Chemical Name (3R,4aR,5S,6S,7S,7aS,8R)-7-benzoylhexahydro-4a,6,7a,8-tetrahydroxy-5-(4-methoxy-2-oxo-2H-pyran-6-yl)-3,6-methanocyclopenta[c]pyran-1(3H)-one

SMILES O=C1[C@@]2(O)[C@@]([C@@H](C(O3)=CC(OC)=CC3=O)[C@]4(O)[C@@H]2C(C5=CC=CC=C5)=O)(O)C[C@@]([C@]([H])4O)([H])O1

Formula C₂₂H₂₀O₁₀

M.Wt 444.4

Solubility DMSO: soluble, Ethanol: soluble, Methanol: soluble, Water: soluble

Storage Store at -20°C

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 sizes: ship with RT, or blue ice upon request.

Structure **Background**

Enterocin is an antibiotic isolated from cultures of two strains of *Streptomyces*, *Streptomyces candidus* var. *enterostaticus* WS-8096 and variant M-127 of *Streptomyces viridochromogenes*. This antibiotic shows activity against Gram-positive and Gram-negative bacteria, especially against the Enterobacteriaceae [1]. Enterocin was named for its strong activity against Enterobacteriaceae.

The elementary analysis and mass spectroscopic measurement suggested that the molecular formula was C₂₂H₂₀O₁₀. The ultraviolet absorption gave two maximal peaks at 250 nm and 283 nm in methanol [1]. The mechanism of enterocin is unknown. Enterocin acts synergistically with streptomycin and chloramphenicol. The genetics of enterocin biosynthesis has been extensively investigated. Enterocin is a small molecular weight secondary metabolite [1].

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

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Reference:

[1] Miyairi N, SAKAI H E I I, KONOMI T, et al. Enterocin, a new antibiotic [J]. The Journal of antibiotics, 1976, 29(3): 227-235.

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