

Product Data Sheet

Product Name: Iturin A-2

Cat. No.: GC91049

Chemical Properties

Cas. No. 83785-07-3

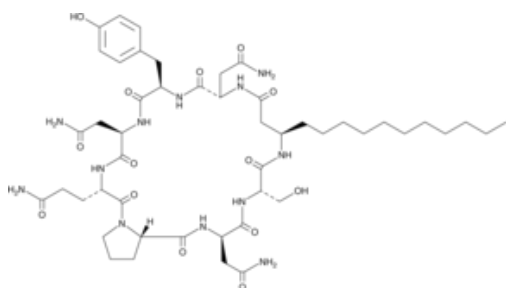
Formula $C_{48}H_{74}N_{12}O_{14}$ M.Wt 1043.2

Solubility DMF: Soluble, DMSO: Soluble, Methanol: 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 size: ship with RT, or blue ice upon request.

Structure



Background

Iturin A-2 is a cyclic lipopeptide that has been found in *B. subtilis* and has diverse biological activities.^{1,2,3,4} It is active against the plant pathogenic fungus *P. expansum* (MIC = 8 $\mu\text{g}/\text{disk}$).¹ Iturin A-2 induces cytotoxicity in MCF-7 and BT474 breast cancer and HeLa cervical cancer cells (IC₅₀s = 66.81, 95.04, and 77.5 $\mu\text{g}/\text{ml}$, respectively).² It reduces southern corn leaf blight lesion area induced by *B. maydis* in greenhouse studies when applied at concentrations of 100 and 300 mg/kg AI and reduces the incidence of southern corn leaf blight in field studies at 300 and 500 mg/kg AI.³ Iturin A-2 (12.5 $\mu\text{g}/\text{ml}$) inhibits cell division, but not nuclear division, in isolated fertilized starfish eggs.⁴

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

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