

Product Name: Pyoluteorin

Product Number: P098

CAS Number: 25683-07-2

Molecular Formula: $C_{11}H_7Cl_2NO_3$

Molecular Weight: 272.1

Appearance: Yellow solid

Storage Conditions: -20°C

Description: Pyoluteorin is a small chlorinated pyrrol produced by several species of *Pseudomonas*, first reported in 1958. Pyoluteorin has a broad bioprofile, demonstrating antibiotic, antifungal and herbicidal activity. More recently, pyoluteorin has been investigated as a bio-pesticide and has been shown to modulate the levels of metabolites in *Pseudomonas*.

Pyoluteorin is soluble in ethanol, methanol, DMF and DMSO.

References: Structure of a new antibiotic, pyoluteorin. Takeda R.J. Am. Chem. Soc. 1958, 80, 4749.

Phloroglucinol mediates cross-talk between the pyoluteorin and 2,4-diacetylphloroglucinol biosynthetic pathways in *Pseudomonas fluorescens* Pf-5. Kidarsa T.A. et al. Mol. Microbiol. 2011, 81, 395.

Slow-release formulation of a new biological pesticide, pyoluteorin, with mesoporous silica. Chen J. J. Agric. Food Chem. 2011, 59, 307.