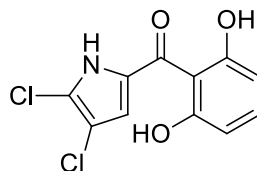


## Pyoluteorin

Code No.: **BIA-P1393**

Pack sizes: **1 mg, 5 mg**



Synonyms :

## Specifications

CAS #	: 25683-07-2
Molecular Formula	: C <sub>11</sub> H <sub>7</sub> Cl <sub>2</sub> NO <sub>3</sub>
Molecular Weight	: 272.1
Source	: <i>Pseudomonas fluorescens</i>
Appearance	: Yellow solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

## Application Notes

Pyoluteorin is a small chlorinated pyrrole 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*.

## References

1. Structure of a new antibiotic, pyoluteorin. Takeda R.J. Am. Chem. Soc. 1958, 80, 4749.
2. 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.
3. Slow-release formulation of a new biological pesticide, pyoluteorin, with mesoporous silica. Chen J. J. Agric. Food Chem. 2011, 59, 307.