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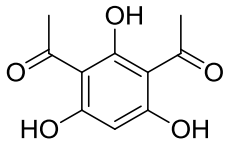
fine chemicals

PRODUCT DATA SHEET

Diacetylphloroglucinol

Code No.: **BIA-D1389**

Pack sizes: **5 mg, 25 mg**



Synonyms :

Specifications

CAS #	:	**2161-86-6**
Molecular Formula	:	**$C_{10}H_{10}O_5$**
Molecular Weight	:	**210.2**
Source	:	***Pseudomonas fluorescens***
Appearance	:	**White to off white solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.**

Application Notes

Diacetylphloroglucinol (DAPG) is a small molecular weight phenolic metabolite belonging to the phloroglucinol (1,3,5-trihydroxybenzene) family produced by bacteria, including Pseudomonas strains. DAPG exhibits a broad range of biological activities, albeit with mostly low potency. In the search for novel actives, DAPG and related metabolites are important for dereplication to eliminate leads due to high amounts of weakly potent actives. Although weakly active, this family appears to be important in the biocontrol of plant diseases by some Pseudomonas strains.

References

1. Liquid chromatographic assay of microbially derived phloroglucinol antibiotics for establishing the biosynthetic route to production, and the factors affecting their regulation. Shanahan P. & Glennon J.D. Anal. Chim. Acta 1993, 272, 271.
2. Role of 2,4-diacetylphloroglucinol in the interactions of the biocontrol Pseudomonad strain F113 with the potato cyst nematode Globodera rostochiensis. Cronin D. et al., Appl. Environ. Microbiol. 1997, 63, 1357.
3. Suppression of root diseases by Pseudomonas fluorescens CHA0: Importance of the bacterial secondary metabolite 2,4-diacetylphloroglucinol. Keel C. et al., Molec. Plant-Microbe Interact. 1992, 5, 4.

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Building C, 28-54 Percival Road, Smithfield, NSW 2164, AUSTRALIA

Tel: 61 2 9757 4515 Fax: 61 2 9757 2586 Web: www.bioaustralis.com Email: info@bioaustralis.com