

Product Name:	Diacetylphloroglucinol
Product Number:	D051
CAS Number:	2161-86-6
Molecular Formula:	C ₁₀ H ₁₀ O ₅
Molecular Weight:	210.2
Appearance:	White to off white solid
Storage Conditions:	-20°C
Description:	<p>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.</p> <p>Diacetylphloroglucinol (DAPG) is soluble in ethanol, methanol, DMF and DMSO.</p>
References:	<p>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.</p> <p>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.</p> <p>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.</p>