

**Product Name:** Monoacetylphloroglucinol

**Product Number:** M069

**CAS Number:** 480-66-0

**Molecular Formula:**  $C_8H_8O_4$

**Molecular Weight:** 186.2

**Appearance:** White solid

**Storage Conditions:** -20°C

**Description:** Monoacetylphloroglucinol (MAPG) is small molecular weight phenolic metabolite belonging to the phloroglucinol (1,3,5-trihydroxybenzene) family, produced by bacteria including *Pseudomonas* strains. MAPG exhibits a broad range of biological activity albeit with mostly low potency. In the search for novel actives, MAPG and related metabolites are important metabolites 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.

Monoacetylphloroglucinol is soluble in ethanol, methanol, DMF or DMSO. Moderate water solubility.

**References:** 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.

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.

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.