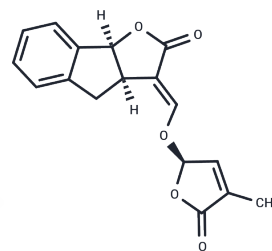


rac-GR24

Chemical Properties

CAS No. :	76974-79-3
Formula:	C ₁₇ H ₁₄ O ₅
Molecular Weight:	298.29
Storage:	Keep away from moisture Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	rac-GR24 is a plant hormone analog that mimics the natural germination stimulants for parasitic plant seeds. It induces germination of parasitic plant seeds in the absence of host plants, thereby reducing the seed bank of parasitic plants in soil, and has wide application value in agricultural research.
Targets(IC50)	Others
In vitro	rac-GR24 significantly promotes primary root elongation in Arabidopsis thaliana Col-0 at 1 μ M for 7 days, whereas it markedly inhibits hypocotyl elongation and lateral root density at 2.5 μ M for 12 days [2].

Solubility Information

Solubility	DMSO: 80.00 mg/mL (268.20 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3524 mL	16.7622 mL	33.5244 mL
5 mM	0.6705 mL	3.3524 mL	6.7049 mL
10 mM	0.3352 mL	1.6762 mL	3.3524 mL
50 mM	0.067 mL	0.3352 mL	0.6705 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Babiker, et al. "Influence of soil moisture on activity and persistence of the strigol analogue GR 24." Weed research 27.3 (1987): 173-178.

Li S, et al. Effect of GR24 Stereoisomers on Plant Development in Arabidopsis. Mol Plant. 2016 Oct 10;9(10):1432-1435.

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