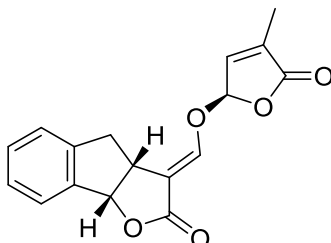


GR24

Code No.: **BIA-G1793**

Pack sizes: **0.25 mg, 1 mg**



Synonyms : Strigolactone GR24

Specifications

CAS #	: 76974-79-3
Molecular Formula	: C ₁₇ H ₁₄ O ₅
Molecular Weight	: 298.3
Source	: Synthetic
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

GR24 is a strigolactone that stimulates germination of root parasitic weeds and hyphal branching of symbiotic arbuscular mycorrhizal fungi, and regulates shoot outgrowth. GR24 stimulates the expression of DRM splicing variants and inhibits root branching in 5-day-old *Arabidopsis thaliana* (L.) Heynh. seedlings. GR24 has anti-inflammatory activity, inhibiting the release of cytokines by blocking NF-κB and MPAK signalling pathways.

References

1. Strigol analogs and their potential for Orobanche control. Saghir A.R., Proc. Int. Symp. Parasit. Weeds. 1979, 238.
2. Actions of strigolactone GR24 and DRM1 gene expression on *Arabidopsis* root architecture. Tripepi A. & Guglielminetti L., Russian J. Plant Physiol. 2017, 64, 845.
3. Identification of genes involved in fungal responses to strigolactones using mutants from fungal pathogens. Belmondo S. et al., Curr. Genetics 2017, 63, 201.
4. Strigolactones: a plant phytohormone as novel anti-inflammatory agents. Zheng J-X. et al., Med. Chem. Comm. 2018, 9, 181.