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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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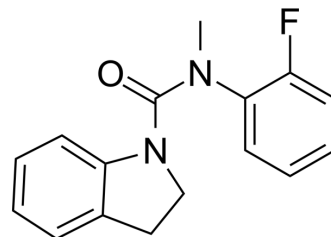
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SL antagonist 1

| | |
|--------------------|---|
| Cat. No.: | HY-162421 |
| Molecular Formula: | C ₁₆ H ₁₅ FN ₂ O |
| Molecular Weight: | 270.3 |
| Target: | Others |
| Pathway: | Others |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|---|
| Description | SL antagonist 1 (Compound D12) is strigolactones antagonists and can strongly interact with SL receptor proteins. SL antagonist 1 can combat root-parasitic weed infestations. SL antagonist 1 has no side effects on the germination or seedling growth ^[1] . |
| In Vitro | <p>SL antagonist 1 (0-320 μM; 11-17 d), together with GR24 (HY-129038) is found can reduce the germination rate of parasitic weed seeds of <i>Phelipanche aegyptiaca</i> and <i>Striga Yorktica</i>^[1].</p> <p>SL antagonist 1 (0-10 μM; 7 with wild or Max2-1 mutant <i>Arabidopsis thaliana</i>, is found to promote hypodermal cell elongation at lower concentrations, suggesting that it has the potential to act as an inhibitor of SL receptors. SL antagonist 1 also attenuates the inhibitory effect of GR24 (HY-129038) on hypodermal cell elongation, suggesting its role in altering SL-mediated physiological responses^[1].</p> <p>SL antagonist 1SL has a stronger binding affinity to SL receptor protein ShHTL7 and higher affinity to <i>Arabidopsis thaliana</i> D14 than KK094^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> |

REFERENCES

[1]. Lin D et al. Design, Synthesis, and Bioactivities of N-Heterocyclic Ureas as Strigolactone Response Antagonists against Parasitic-Weed Seed Germination J Agric Food Chem. 2024 Apr.

Caution: Product has not been fully validated for medical applications. For research use only.

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