## SL antagonist 1

Cat. No.:	HY-162421	
Molecular Formula:	C <sub>16</sub> H <sub>15</sub> FN <sub>2</sub> O	ı F
Molecular Weight:	270.3	$0$ , $N$ , $\downarrow$
Target:	Others	
Pathway:	Others	N V
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY		
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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 <sup>[1]</sup> .	
In Vitro	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 Phelipanche aegyptiaca and Striga Yorktica <sup>[1]</sup> . SL antagonist 1 (0-10 μM; 7 with wild or Max2-1 mutant Arabidopsis thaliana, 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 <sup>[1]</sup> . SL antagonist 1SL has a stronger binding affinity to SL receptor protein ShHTL7 and higher affinity to Arabidopsis thaliana D14 than KK094 <sup>[1]</sup> .	

## 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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## Product Data Sheet

