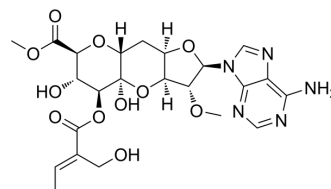


Herbicidin A

Cat. No.:	HY-124438
CAS No.:	55353-31-6
Molecular Formula:	C ₂₃ H ₂₉ N ₅ O ₁₁
Molecular Weight:	551.5
Target:	Fungal; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Herbicidin A is an adenosine-derived nucleoside antibiotic, but also is a herbicide against dicotyledonous plants. Herbicidin A can be isolated from <i>Streptomyces scopuliridis</i> M40 ^{[1][2]} .
In Vitro	Herbicidin A is the most extensively decorated herbicidin to date, which has a 5-hydroxytylglyl group at C8 ^[1] . The precursors for herbicidin biosynthesis are D-glucose, D-ribose, L-isoleucine, and L-methionine ^[1] . Herbicidins are selective herbicide against dicotyledonous plants and inhibit the germination of Chinese cabbage and rice seeds ^[1] . Herbicidins can protect rice plants from leaf blight and also exhibit antialgal and antifungal activities ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lin GM, et al. Identification and Interrogation of the Herbicidin Biosynthetic Gene Cluster: First Insight into the Biosynthesis of a Rare Undecose Nucleoside Antibiotic. *J Am Chem Soc.* 2017 Nov 22;139(46):16450-16453.

[2]. Ha S, et al. Optimization of Herbicidin A Production in Submerged Culture of *Streptomyces scopuliridis* M40. *J Microbiol Biotechnol.* 2017 May 28;27(5):947-955.

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

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