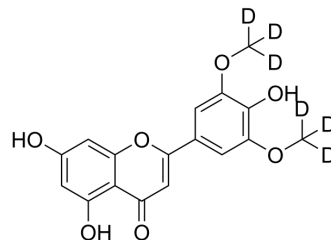


Tricin-d₆

Cat. No.:	HY-N1127S
Molecular Formula:	C ₁₇ H ₈ D ₆ O ₇
Molecular Weight:	336.33
Target:	CMV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Tricin-d₆ is the deuterium labeled Tricin[1]. Tricin is a natural flavonoid present in large amounts in *Triticum aestivum*. Tricin can inhibit human cytomegalovirus (HCMV) replication by inhibiting CDK9. Tricin inhibits the proliferation and invasion of C6 glioma cells via the upregulation of focal-adhesion-kinase (FAK)-targeting microRNA-7[2][3][4].

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Itoh A, et al. Tricin inhibits the CCL5 induction required for efficient growth of human cytomegalovirus. *Microbiol Immunol*. 2018 May;62(5):341-347.
- [3]. Sadanari H, et al. The anti-human cytomegalovirus drug triclin inhibits cyclin-dependent kinase 9. *FEBS Open Bio*. 2018 Feb 208(4):646-654.
- [4]. Chung DJ, et al. Inhibition of the Proliferation and Invasion of C6 Glioma Cells by Tricin via the Upregulation of Focal-Adhesion-Kinase-Targeting MicroRNA-7. *J Agric Food Chem*. 2018 Jul 566(26):6708-6716.

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

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