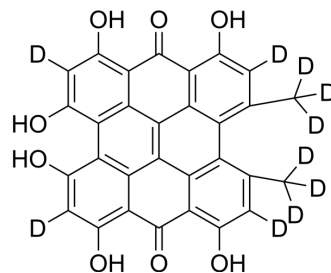


Hypericin-d₁₀

Cat. No.:	HY-N0453S
Molecular Formula:	C ₃₀ H ₆ D ₁₀ O ₈
Molecular Weight:	514.5
Target:	Apoptosis; Influenza Virus; Isotope-Labeled Compounds
Pathway:	Apoptosis; Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Hypericin-d ₁₀ is the deuterium labeled Hypericin. Hypericin is a photosensitive antiviral with anticancer and antidepressant agent derived from <i>Hypericum perforatum</i> . It can inhibit tyrosine kinases with IC ₅₀ of 7.5 μM.
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;53(2):211-216.
- [2]. Agostinis P et al. Hypericin in cancer treatment: more light on the way. *Int J Biochem Cell Biol*. 2002 Mar;34(3):221-41.
- [3]. Lenard J et al. Photodynamic inactivation of infectivity of human immunodeficiency virus and other enveloped viruses using hypericin and rose bengal: inhibition of fusion and syncytia formation. *Proc Natl Acad Sci U S A*. 1993 Jan 1;90(1):158-62.
- [4]. Hwang MS et al. Inhibition of c-erbB-2 expression an activity in human ovarian carcinoma cells by hypericin. *Anticancer Res*. 2001 Jul-Aug;21(4A):2649-55.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA