# Hypericin-$d_2$

**Cat. No.:** HY-N0453S1

**Molecular Formula:** $C_{30}H_{14}D_2O_8$

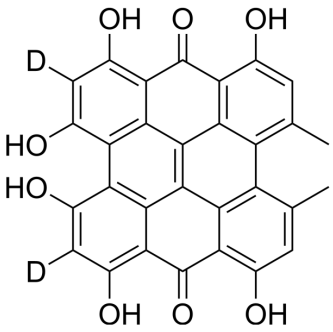
**Molecular Weight:** 506.46

**Target:** Apoptosis; Influenza Virus

**Pathway:** Apoptosis; Anti-infection

**Storage:**

| | | |
|---|---|---|
| Powder | -20°C | 3 years |
| In solvent | -80°C | 6 months |
| | -20°C | 1 month |




## SOLVENT & SOLUBILITY

**In Vitro**

DMSO : 250 mg/mL (493.62 mM; ultrasonic and warming and heat to 60°C)

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**Preparing Stock Solutions**

| Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|
| 1 mM | 1.9745 mL | 9.8724 mL | 19.7449 mL |
| 5 mM | 0.3949 mL | 1.9745 mL | 3.9490 mL |
| 10 mM | 0.1974 mL | 0.9872 mL | 1.9745 mL |

Please refer to the solubility information to select the appropriate solvent.

## BIOLOGICAL ACTIVITY

**Description**

Hypericin-$d_2$ is deuterium labeled Hypericin.

**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]. 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.

[4]. Lenard J et al. Photodynamic inactivation of infectivity of human immunodeficiency virus and other enveloped viruses usinghypericin and rose bengal: inhibition of fusion and syncytia formation. Proc Natl Acad Sci U S A. 1993 Jan 1;90(1):158-62.



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