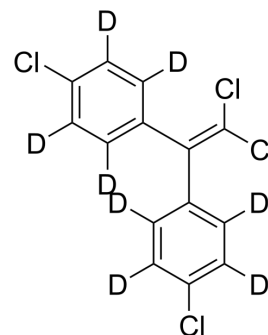


## p,p'-DDE-d<sub>8</sub>

Cat. No.:	HY-B1986S
CAS No.:	93952-19-3
Molecular Formula:	C <sub>14</sub> D <sub>8</sub> Cl <sub>4</sub>
Molecular Weight:	326.07
Target:	Androgen Receptor; Drug Metabolite
Pathway:	Vitamin D Related/Nuclear Receptor; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	p,p'-DDE-d <sub>8</sub> is the deuterium labeled p,p'-DDE[1]. p,p'-DDE (4,4'-DDE), a major metabolite of persistent dichlorodiphenyltrichloroethane (DDT), is a potent androgen receptor antagonist, with an IC <sub>50</sub> of 5 μM and a K <sub>i</sub> of 3.5 μM[2].
<b>In Vitro</b>	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 <sup>[1]</sup> . 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]. Kelce WR, et al. Persistent DDT metabolite p,p'-DDE is a potent androgen receptor antagonist. *Nature*. 1995;375(6532):581-585.

**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