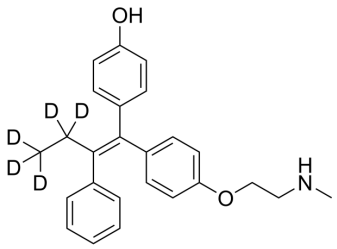
Endoxifen-d_5

Cat. No.:	HY-18719ES
CAS No.:	1185244-45-4
Molecular Formula:	$C_{25}H_{22}D_5NO_2$
Molecular Weight:	378.52
Target:	Estrogen Receptor/ERR; Parasite; Drug Metabolite; Cytochrome P450
Pathway:	Vitamin D Related/Nuclear Receptor; Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Endoxifen-d_5 is the deuterium labeled Endoxifen. Endoxifen is a key active metabolite of tamoxifen (TAM) with higher affinity and specificity to estrogen receptor that also inhibits aromatase activity. Endoxifen has the potential for breast cancer study[1][2].
IC_{50} & Target	Aromatase
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]. Goetz MP, et al. Tamoxifen, endoxifen, and CYP2D6: the rules for evaluating a predictive factor. Oncology (Williston Park). 2009 Dec;23(14):1233-4, 1236.

[3]. Wu X, et al. The tamoxifen metabolite, endoxifen, is a potent antiestrogen that targets estrogen receptor alpha for degradation in breast cancer cells. Cancer Res. 2009 Mar 1;69(5):1722-7.

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