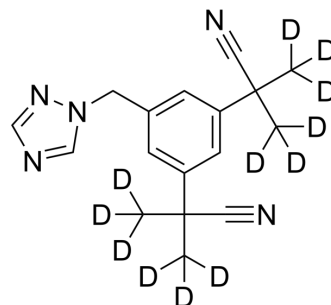


## Anastrozole-d<sub>12</sub>

<b>Cat. No.:</b>	HY-14274S
<b>CAS No.:</b>	120512-32-5
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>7</sub> D <sub>12</sub> N <sub>5</sub>
<b>Molecular Weight:</b>	305.44
<b>Target:</b>	Isotope-Labeled Compounds; Cytochrome P450
<b>Pathway:</b>	Others; Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Anastrozole-d <sub>12</sub> is the deuterium labeled Anastrozole. Anastrozole is a potent, highly selective aromatase inhibitor, which inhibits human placental aromatase with an IC <sub>50</sub> of 15 nM[1][2].
<b>IC<sub>50</sub> &amp; Target</b>	Aromatase
<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;53(2):211-216.
- [2]. Dukes M, et al. The preclinical pharmacology of "Arimidex" (anastrozole; ZD1033)--a potent, selective aromatase inhibitor. *J Steroid Biochem Mol Biol.* 1996 Jul;58(4):439-45.

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

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