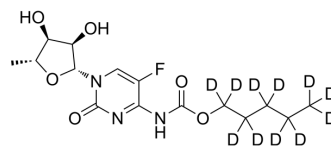


## Capecitabine-d<sub>11</sub>

<b>Cat. No.:</b>	HY-B0016S									
<b>CAS No.:</b>	1132662-08-8									
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>11</sub> D <sub>11</sub> FN <sub>3</sub> O <sub>6</sub>									
<b>Molecular Weight:</b>	370.42									
<b>Target:</b>	DNA/RNA Synthesis; Nucleoside Antimetabolite/Analog; Apoptosis; Isotope-Labeled Compounds									
<b>Pathway:</b>	Cell Cycle/DNA Damage; Apoptosis; Others									
<b>Storage:</b>	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-20°C	3 years	In solvent	-80°C	6 months		-20°C	1 month
Powder	-20°C	3 years								
In solvent	-80°C	6 months								
	-20°C	1 month								



### BIOLOGICAL ACTIVITY

<b>Description</b>	Capecitabine-d <sub>11</sub> is the deuterium labeled Capecitabine. Capecitabine is an oral proagent that is converted to its active metabolite, 5-FU, by thymidine phosphorylase[1][2].
<b>In Vitro</b>	<p>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>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. PharmD CM, et al. Capecitabine: A review. *Clinical Therapeutics.* 2005 Jan; 27(1): 23-44.
- [3]. Guichard SM, et al. Gene expression predicts differential capecitabine metabolism, impacting on both pharmacokinetics and antitumour activity. *Eur J Cancer.* 2008 Jan;44(2):310-7.

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

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