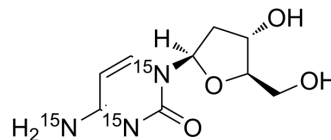


## 2'-Deoxycytidine-<sup>15</sup>N<sub>3</sub>

Cat. No.:	HY-D0184S2
Molecular Formula:	C <sub>9</sub> H <sub>13</sub> <sup>15</sup> N <sub>3</sub> O <sub>4</sub>
Molecular Weight:	230.2
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### BIOLOGICAL ACTIVITY

<b>Description</b>	2'-Deoxycytidine- <sup>15</sup> N <sub>3</sub> is the <sup>15</sup> N labeled 2'-Deoxycytidine[1]. 2'-Deoxycytidine, a deoxyribonucleoside, could inhibit biological effects of Bromodeoxyuridine (BrdU)[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]. Horn D, et al. Inhibition of biological effects of bromodeoxyuridine by deoxycytidine: correlation with decreased incorporation of bromodeoxyuridine into DNA. *Somatic Cell Genet*. 1976 Sep;2(5):469-81.

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

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