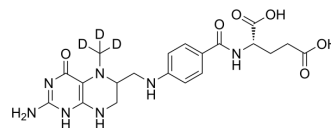


## 5-(Methyl-d<sub>3</sub>)tetrahydrofolic Acid

<b>Cat. No.:</b>	HY-132384S
<b>CAS No.:</b>	1356019-97-0
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>22</sub> D <sub>3</sub> N <sub>7</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	462.47
<b>Target:</b>	Isotope-Labeled Compounds
<b>Pathway:</b>	Others
<b>Storage:</b>	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### BIOLOGICAL ACTIVITY

<b>Description</b>	5-(Methyl-d <sub>3</sub> )tetrahydrofolic Acid is the deuterium labeled 5-(Methyl)tetrahydrofolic Acid[1].
<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.

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

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