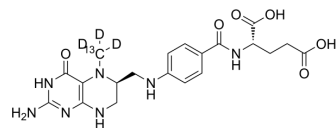


## Levomefolic acid-<sup>13</sup>C,<sub>3</sub>D<sub>3</sub>

<b>Cat. No.:</b>	HY-14781S1
<b>CAS No.:</b>	1356019-94-7
<b>Molecular Formula:</b>	C <sub>19</sub> <sup>13</sup> CH <sub>22</sub> D <sub>3</sub> N <sub>7</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	463.47
<b>Target:</b>	Isotope-Labeled Compounds
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### BIOLOGICAL ACTIVITY

<b>Description</b>	Levomefolic acid- <sup>13</sup> C, <sub>3</sub> D <sub>3</sub> is the deuterium labeled Levomefolic acid (HY-14781) <sup>[1]</sup> . Levomefolic acid (5-MTHF) is an orally active, brain-penetrant natural active form of folic acid and is one of the most widely used folic acid food supplements <sup>[2][3]</sup> .
<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.

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

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