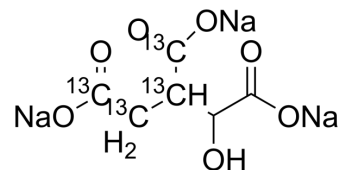


## DL-Isocitric acid-<sup>13</sup>C<sub>4</sub> trisodium salt

<b>Cat. No.:</b>	HY-W009362S
<b>Molecular Formula:</b>	C <sub>2</sub> <sup>13</sup> C <sub>4</sub> H <sub>5</sub> Na <sub>3</sub> O <sub>7</sub>
<b>Molecular Weight:</b>	262.04
<b>Target:</b>	Isotope-Labeled Compounds
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	DL-Isocitric acid- <sup>13</sup> C <sub>4</sub> (trisodium salt) is a <sup>13</sup> C labeled DL-Isocitric acid (trisodium salt) (HY-W009362). DL-Isocitric acid trisodium salt is an endogenous metabolite. DL-Isocitric acid trisodium salt is a substrate in the citric acid cycle. DL-Isocitric acid trisodium salt can be used as a marker for determining the composition of isocitrates in fruit products, including fruit juices.
<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):211-246.

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

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