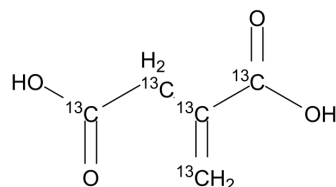


## Itaconic acid-<sup>13</sup>C<sub>5</sub>

Cat. No.:	HY-Y0520S		
CAS No.:	2095777-38-9		
Molecular Formula:	<sup>13</sup> C <sub>5</sub> H <sub>6</sub> O <sub>4</sub>		
Molecular Weight:	135.06		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

Description	Itaconic acid- <sup>13</sup> C <sub>5</sub> is the <sup>13</sup> C labeled Itaconic acid. Itaconic acid, a precursor of polymers, chemicals, and fuels, can be synthesized by many fungi. Itaconic acid also is a macrophage-specific metabolite. Itaconic acid mediates crosstalk between macrophage metabolism and peritoneal tumors[1][2].
In Vitro	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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