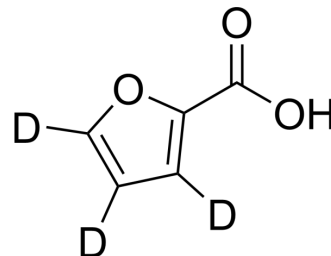


2-Furoic acid-d₃

Cat. No.:	HY-W012946S
CAS No.:	40073-83-4
Molecular Formula:	C ₅ HD ₃ O ₃
Molecular Weight:	115.1
Target:	Acyltransferase; ATP Citrate Lyase; Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	2-Furoic acid-d ₃ is the deuterium labeled 2-Furoic acid[1]. 2-Furoic acid (Furan-2-carboxylic acid) is an organic compound produced through furfural oxidation[2]. 2-Furoic acid exhibits hypolipidemic effect, lowers both serum cholesterol and serum triglyceride levels in rats[3].
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 ^[1] . 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]. Wordofa GG, et al. Tolerance and metabolic response of *Pseudomonas taiwanensis* VLB120 towards biomass hydrolysate-derived inhibitors. *Biotechnol Biofuels*. 2018 Jul 19;11:199.
- [3]. Hall IH, et al. The hypolipidemic effects of 2-furoic acid in Sprague-Dawley rats. *Arch Pharm (Weinheim)*. 1993 Jan326(1):15-23.

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

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