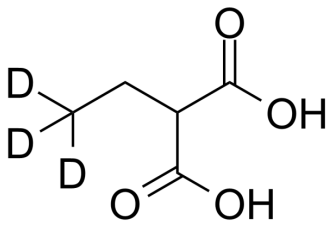
Ethylmalonic acid-d3

Cat. No.:	HY-34740S
CAS No.:	70907-93-6
Molecular Formula:	$C_5H_5D_3O_4$
Molecular Weight:	135.13
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	Ethylmalonic acid-d_3 is the deuterium labeled Ethylmalonic acid. Ethylmalonic acid is non-carcinogenic potentially toxic and associated with anorexia nervosa and malonyl-CoA decarboxylase deficiency.
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;53(2):211-216.

[2]. Gregersen N, et al. General (medium-chain) acyl-CoA dehydrogenase deficiency (non-ketotic dicarboxylic aciduria): quantitative urinary excretion pattern of 23 biologically significant organic acids in three cases. Clin Chim Acta. 1983 Aug 15;132(2):181-91

[3]. Yano S, et al. A new case of malonyl coenzyme A decarboxylase deficiency presenting with cardiomyopathy. Eur J Pediatr. 1997 May;156(5):382-3.

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