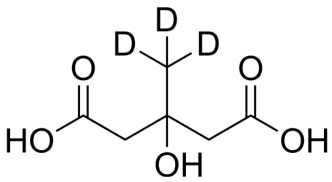
Meglutol-d_3

Cat. No.:	HY-B1189S
CAS No.:	59060-36-5
Molecular Formula:	$C_6H_7D_3O_5$
Molecular Weight:	165.16
Target:	Autophagy; HMG-CoA Reductase (HMGCR); Endogenous Metabolite
Pathway:	Autophagy; 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	Meglutol-d_3 is the deuterium labeled Meglutol[1]. Meglutol is an antilipemic agent which lowers cholesterol, triglycerides, serum beta-lipoproteins and phospholipids, and inhibits the activity of hydroxymethylglutarryl CoA reductases, which is the rate limiting enzyme in the biosynthesis of cholesterol.
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.

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