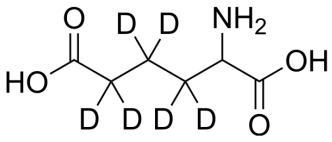
Aminoadipic acid-d_6

Cat. No.:	HY-113328S1
CAS No.:	2509058-79-9
Molecular Formula:	$C_6H_5D_6NO_4$
Molecular Weight:	167.19
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Aminoadipic acid-d_6 is deuterated labeled Aminoadipic acid (HY-113328). Aminoadipic acid is an intermediate in the metabolism of lysine and glycopurine.
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]. Wang TJ, et al. 2-Aminoadipic acid is a biomarker for diabetes risk. J Clin Invest. 2013 Oct;123(10):4309-17.

[2]. Wang X, et al. α-Aminoadipic acid protects against retinal disruption through attenuating Müller cell gliosis in a rat model of acute ocular hypertension. Drug Des Devel Ther. 2016 Oct 20;10:3449-3457.

[3]. 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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