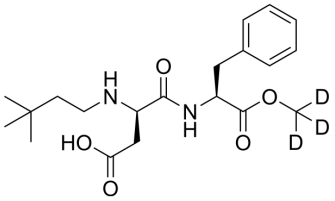
(R)-Neotame-d3

Cat. No.:	HY-W011053S
Molecular Formula:	$C_{20}H_{27}D_3N_2O_5$
Molecular Weight:	381.48
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(R)-Neotame-d_3 is the deuterium labeled Neotame. Neotame is a derivative of Aspartame and is a low-caloric and high-intensity artificial sweetener that is 7000-13,000 times sweeter than sugar. Neotame is a non-nutritive sweetener and flavor enhancer that can be used in a variety of foods[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[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]. Liang Chi, et al. Effects of the Artificial Sweetener Neotame on the Gut Microbiome and Fecal Metabolites in Mice. Molecules. 2018 Feb 9;23(2):367.

[3]. Anuradha Kumari, et al. Stability of Aspartame and Neotame in Pasteurized and In-Bottle Sterilized Flavoured Milk. Food Chem. 2016 Apr 1;196:533-8.

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