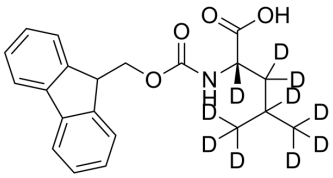
Fmoc-leucine-d_{10}

Cat. No.:	HY-101064S3
CAS No.:	1190594-22-9
Molecular Formula:	$C_{21}H_{13}D_{10}NO_4$
Molecular Weight:	363.47
Target:	PPAR
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor



Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month

BIOLOGICAL ACTIVITY

Description	Fmoc-leucine-d_{10} is the deuterium labeled Fmoc-leucine. Fmoc-leucine is a selective PPARγ modulator. Fmoc-leucine activates PPARγ with a lower potency but a similar maximal efficacy than rosiglitazone. Fmoc-leucine improves insulin sensitivity in normal, diet-induced glucose-intolerant, and in diabetic db/db mice. Fmoc-leucine has a lower adipogenic activity[1].
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]. Rocchi S, et al. A unique PPARgamma ligand with potent insulin-sensitizing yet weak adipogenic activity. Mol Cell. 2001 Oct;8(4):737-47.

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