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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

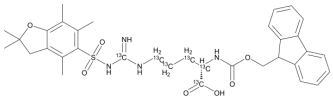
mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

L-Arginine-N-FMOC PBF-OH-$^{13}C_6$

Cat. No.:	HY-Y1636S1
Molecular Formula:	$C_{28}{}^{13}C_6H_{40}N_4O_7S$
Molecular Weight:	654.72
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	L-Arginine-N-FMOC PBF-OH-$^{13}C_6$ is the ^{13}C labeled Fmoc-Arg(Pbf)-OH[1]. Fmoc-Arg(Pbf)-OH is an arginine derivative containing amine protecting group Fmoc. Fmoc-Arg(Pbf)-OH is a building block for the introduction of Arg into SPPS (Solid-Phase Peptide Synthesis)[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 Feb;53(2):211-216.

[2]. Beatriz G, et al. Successful development of a method for the incorporation of Fmoc-Arg (Pbf)-OH in solid-phase peptide synthesis using N-butylpyrrolidinone (NBP) as solvent. Green Chemistry, 2020, 22(10): 3162-3169.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA