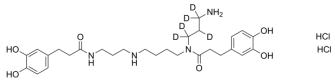
Kukoamine B-d_5 dihydrochloride

Cat. No.:	HY-N2393S
Molecular Formula:	$C_{28}H_{39}D_5Cl_2N_4O_6$
Molecular Weight:	608.61
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Kukoamine B-d_5 (dihydrochloride) is deuterium labeled Kukoamine B. Kukoamine B is a component of Lycii Cortex, with anti-oxidant, anti-acute inflammatory and anti-diabetic properties[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]. Li YY, et al. A Metabolomics Approach to Investigate Kukoamine B-A Potent Natural Product With Anti-diabetic Properties. Front Pharmacol. 2019 Jan 22;9:1575.

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