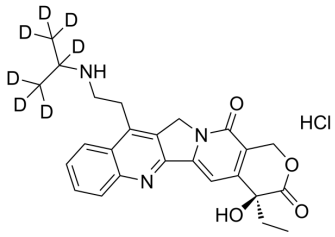
Belotecan-d_7 hydrochloride

Cat. No.:	HY-13566AS
CAS No.:	1346598-22-8
Molecular Formula:	$C_{25}H_{21}D_7ClN_3O_4$
Molecular Weight:	477
Target:	Topoisomerase
Pathway:	Cell Cycle/DNA Damage
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Belotecan-d_7 (hydrochloride) is the deuterium labeled Belotecan hydrochloride. Belotecan hydrochloride (CKD-602 hydrochloride), a Topoisomerase I inhibitor, is a synthetic camptothecin derivative[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]. Kim YK, et al. Anticancer effects of CKD-602 (Camtobell?) via G2/M phase arrest in oral squamous cell carcinoma cell lines. Oncol Lett. 2015 Jan;9(1):136-142.

[3]. Kim YY, et al. CKD-602, a camptothecin derivative, inhibits proliferation and induces apoptosis in glioma cell lines. Oncol Rep. 2009 Jun;21(6):1413-9.

[4]. Kim CY, et al. Antitumor activity of CKD-602, a camptothecin derivative, in a mouse glioma model. J Clin Neurosci. 2012 Feb;19(2):301-5.

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