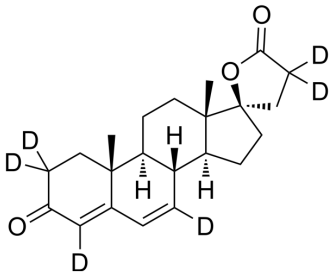
Canrenone-d_6

Cat. No.:	HY-B1438S
Molecular Formula:	$C_{22}H_{22}D_6O_3$
Molecular Weight:	346.49
Target:	Mineralocorticoid Receptor; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Canrenone-d_6 is the deuterium labeled Canrenone. Canrenone (Aldadiene) is an aldosterone antagonist extensively used as a diuretic agent.
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]. Erbler HC, et al. On the mechanism of the inhibitory action of the spirolactone SC 9376 (aldadiene) on the production of corticosteroids in rat adrenals in vitro. Naunyn Schmiedebergs Arch Pharmacol. 1973;277(2):139-49.

[3]. Caligiuri A, et al. Antifibrogenic effects of canrenone, an antialdosteronic drug, on human hepatic stellate cells. Gastroenterology. 2003 Feb;124(2):504-20.

[4]. Erbler HC, et al. Effect of spironolactone and its main metabolite canrenone on the renin-angiotensin-aldosterone-system during long-term treatment in rats. Acta Endocrinol (Copenh). 1979 Jan;90(1):147-56.

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