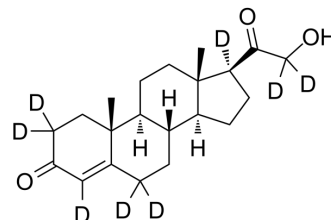


## Deoxycorticosterone-d<sub>8</sub>

<b>Cat. No.:</b>	HY-113414S
<b>CAS No.:</b>	55487-63-3
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>22</sub> D <sub>8</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	338.51
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 250 mg/mL (738.53 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.9541 mL	14.7706 mL	29.5412 mL
5 mM	0.5908 mL	2.9541 mL	5.9082 mL
10 mM	0.2954 mL	1.4771 mL	2.9541 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Deoxycorticosterone-d<sub>8</sub> is the deuterium labeled Deoxycorticosterone. Deoxycorticosterone is a steroid hormone produced by the adrenal gland that possesses mineralocorticoid activity and acts as an aldosterone precursor<sup>[1][2]</sup>.

#### 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<sup>[1]</sup>.

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]. KAGAWA CM, et al. Action of new steroids in blocking effects of aldosterone and desoxycorticosterone on salt. *Science*. 1957 Nov 15;126(3281):1015-6.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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