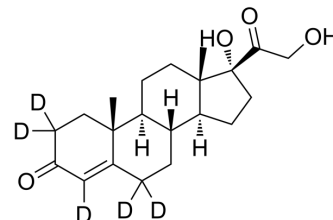


## Cortodoxone-d<sub>5</sub>

Cat. No.:	HY-77839S
CAS No.:	1258063-56-7
Molecular Formula:	C <sub>21</sub> H <sub>25</sub> D <sub>5</sub> O <sub>4</sub>
Molecular Weight:	351.49
Target:	Glucocorticoid Receptor; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Immunology/Inflammation; Vitamin D Related/Nuclear Receptor; Metabolic Enzyme/Protease; Others
Storage:	Powder    -20°C    3 years In solvent   -80°C    6 months -20°C    1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (142.25 mM; Need ultrasonic and warming)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.8450 mL	14.2252 mL	28.4503 mL
	5 mM		0.5690 mL	2.8450 mL	5.6901 mL
	10 mM		0.2845 mL	1.4225 mL	2.8450 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Cortodoxone-d<sub>5</sub> is the deuterium labeled Cortodoxone.

#### 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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

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