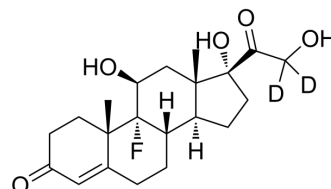


## Fludrocortisone-d<sub>2</sub>

<b>Cat. No.:</b>	HY-B1203S1
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>27</sub> D <sub>2</sub> FO <sub>5</sub>
<b>Molecular Weight:</b>	382.46
<b>Target:</b>	Mineralocorticoid Receptor; Isotope-Labeled Compounds
<b>Pathway:</b>	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Fludrocortisone-d <sub>2</sub> is the deuterium labeled Fludrocortisone. Fludrocortisone, a synthetic mineralocorticoid with anti-inflammatory activity.
<b>In Vitro</b>	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]. Jaal J, et al. Small Cell Lung Cancer Patient with Profound Hyponatremia and Acute Neurological Symptoms: An Effective Treatment with Fludrocortisone. *Case Rep Oncol Med*. 2015;2015:286029.
- [3]. Mori T, et al. Improved efficiency of hypervolemic therapy with inhibition of natriuresis by fludrocortisone in patients with aneurysmal subarachnoid hemorrhage. *Journal of Neurosurgery* [1999, 91(6):947-952]

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

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