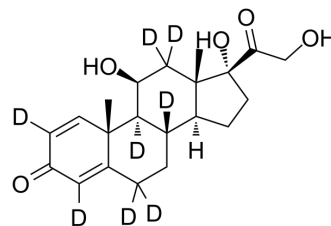


## Prednisolone-d8

<b>Cat. No.:</b>	HY-17463S
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>20</sub> D <sub>8</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	368.49
<b>Target:</b>	Glucocorticoid Receptor; Endogenous Metabolite
<b>Pathway:</b>	GPCR/G Protein; Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Prednisolone-d8 is the deuterium labeled Prednisolone. Prednisolone is a potent, orally active corticosteroid and a glucocorticoid. Prednisolone possesses about four times the anti-inflammatory activity of hydrocortisone while causing less salt and water retention. Prednisolone can be used for ocular, anti-inflammatory research <sup>[1][2]</sup> .
<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]. Prednisolone. *J Am Pharm Assoc.* 1976;16(3):143-146.
- [3]. Musson DG, et al. Assay methodology for prednisolone, prednisolone acetate and prednisolone sodium phosphate in rabbit aqueous humor and ocular physiological solutions. *J Chromatogr.* 1991;565(1-2):89-102.

**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

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