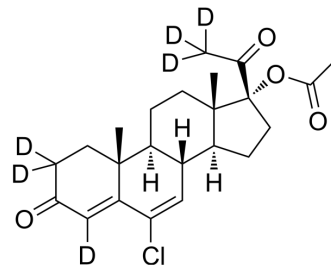


Chlormadinone acetate-d₆-1

| | | | |
|---------------------------|---|-------|----------|
| Cat. No.: | HY-B1095S1 | | |
| Molecular Formula: | C ₂₃ H ₂₃ D ₆ ClO ₄ | | |
| Molecular Weight: | 410.96 | | |
| Target: | Progesterone Receptor; Isotope-Labeled Compounds | | |
| Pathway: | Vitamin D Related/Nuclear Receptor; Others | | |
| Storage: | Powder | -20°C | 3 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (24.33 mM; Need ultrasonic)
 H₂O : 1 mg/mL (2.43 mM; ultrasonic and warming and heat to 80°C)

| Preparing Stock Solutions | Solvent | Mass | 1 mg | 5 mg | 10 mg |
|---------------------------|---------------|------|-----------|------------|------------|
| | Concentration | | | | |
| | 1 mM | | 2.4333 mL | 12.1666 mL | 24.3333 mL |
| | 5 mM | | 0.4867 mL | 2.4333 mL | 4.8667 mL |
| | 10 mM | | 0.2433 mL | 1.2167 mL | 2.4333 mL |

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

BIOLOGICAL ACTIVITY

Description

Chlormadinone acetate-d₆-1 is deuterium labeled Chlormadinone acetate.

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.

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

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