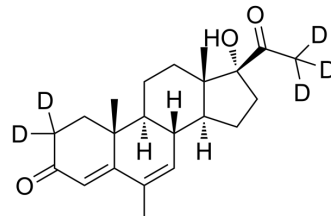


Megestrol-d₅

Cat. No.:	HY-B1834S1
Molecular Formula:	C ₂₂ H ₂₅ D ₅ O ₃
Molecular Weight:	347.5
Target:	Drug Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Megestrol-d ₅ is the deuterium labeled Megestrol. Megestrol is a synthetic progestin and used for the treatment of anorexia, cachexia, or an unexplained significant weight loss in patients with an acquired immunodeficiency syndrome diagnosis ^{[1][2]} .
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.
- [2]. Garcia JM, et al. Off-Label Megestrol in Patients with Anorexia-Cachexia Syndrome Associated with Malignancy and Its Treatments. *Am J Med.* 2018 Jun;131(6):623-629.e1.

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

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