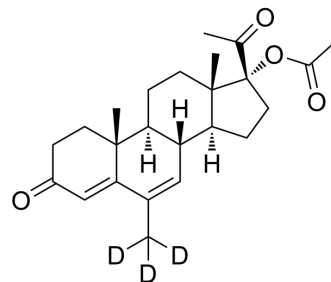


Megestrol acetate-d₃

Cat. No.:	HY-13676S
CAS No.:	162462-72-8
Molecular Formula:	C ₂₄ H ₂₉ D ₃ O ₄
Molecular Weight:	387.53
Target:	Progesterone Receptor; Autophagy; HIV; Isotope-Labeled Compounds
Pathway:	Vitamin D Related/Nuclear Receptor; Autophagy; Anti-infection; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	<p>Megestrol acetate-d₃ is the deuterium labeled Megestrol acetate. Megestrol acetate is a synthetic and orally active progesteronal agent. Megestrol acetate is effective as an appetite stimulant for wasting syndromes such as cachexia. Megestrol acetate decreases nuclear and cytosol androgen receptors human BPH tissue. Megestrol acetate has the potential for HIV study and downregulates autophagic catabolic pathway[1][2][3][4][5].</p>
In Vitro	<p>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.</p>

REFERENCES

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- [2]. S A Beck, et al. Effect of megestrol acetate on weight loss induced by tumour necrosis factor alpha and a cachexia-inducing tumour (MAC16) in NMRI mice. *Br J Cancer.* 1990 Sep;62(3):420-4.
- [3]. L Panasci, et al. Sensitization to doxorubicin resistance in breast cancer cell lines by tamoxifen and megestrol acetate. *Biochem Pharmacol.* 1996 Oct 11;52(7):1097-102.
- [4]. J Geller, et al. Acute therapy with megestrol acetate decreases nuclear and cytosol androgen receptors in human BPH tissue. *Prostate.* 1982;3(1):11-5.
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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

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