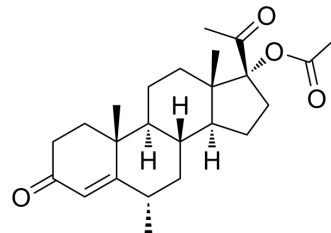


## Medroxyprogesterone acetate (Standard)

<b>Cat. No.:</b>	HY-B0469R
<b>CAS No.:</b>	71-58-9
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>34</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	386.52
<b>Target:</b>	Progesterone Receptor; Endogenous Metabolite; Androgen Receptor; Glucocorticoid Receptor
<b>Pathway:</b>	Vitamin D Related/Nuclear Receptor; Metabolic Enzyme/Protease; Immunology/Inflammation
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 10 mg/mL (25.87 mM; Need ultrasonic)  
 Ethanol : 6.25 mg/mL (16.17 mM; ultrasonic and warming and heat to 60°C)  
 H<sub>2</sub>O : 1 mg/mL (2.59 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.5872 mL	12.9359 mL	25.8719 mL
	5 mM	0.5174 mL	2.5872 mL	5.1744 mL
	10 mM	0.2587 mL	1.2936 mL	2.5872 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Medroxyprogesterone acetate (Standard) is the analytical standard of Medroxyprogesterone acetate. This product is intended for research and analytical applications. Medroxyprogesterone acetate is a widely used synthetic steroid by its interaction with progesterone, androgen and glucocorticoid receptors<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

### CUSTOMER VALIDATION

- Signal Transduct Target Ther. 2023 May 10;8(1):183.
- Int J Mol Sci. 2023 Mar 7.

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- *Reprod Biol Endocrinol*. 2022 Sep 22;20(1):142.
  - *Mol Cell Endocrinol*. 2023 May 31;111952.
  - *Reprod Biomed Online*. 11 October 2022.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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

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