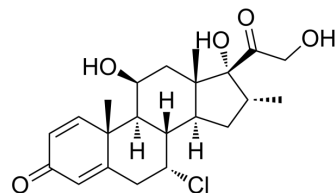


## Alclometasone

<b>Cat. No.:</b>	HY-A0150
<b>CAS No.:</b>	67452-97-5
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>29</sub> ClO <sub>5</sub>
<b>Molecular Weight:</b>	408.92
<b>Target:</b>	Glucocorticoid Receptor
<b>Pathway:</b>	Immunology/Inflammation; Vitamin D Related/Nuclear Receptor
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Alclometasone (7α-Chloro-16α-methyl prednisolone) is a glucocorticoid and inhibits the release of pro-inflammatory mediators from leukocytes. Alclometasone can be used to relieve corticosteroid-responsive dermatoses, including atopic dermatitis, eczema, psoriasis and allergic dermatitis <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : glucocorticoid receptor <sup>[1]</sup>
<b>In Vivo</b>	The prodrug of alclometasone is alclometasone dipropionate <sup>[2]</sup> . Alclometasone dipropionate (subcutaneous injection; 1% (w/v) arabic gum; 2 weeks) inhibits the activity of androgen-dependent cytochrome P450 and O-depropylation activity as a dose-dependent manner in male Slc-Wistar strain rats. However, it has no effects on hepatic drug metabolism in female rats or DS strain mice <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- Cancer Cell Int. 2021 Jun 5;21(1):291.

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

### REFERENCES

[1]. Alclometasone

[2]. Nishibe Y, et al. Species and sex differences in the inhibitory action of the corticosteroid alclometasone dipropionate on the hepatic drug-metabolizing system. Jpn J Pharmacol. 1989 Aug;50(4):435-43.

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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](mailto:tech@MedChemExpress.com)

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