## 

## Methylprednisolone aceponate

Cat. No.:	HY-103025	
CAS No.:	86401-95-8	C D
Molecular Formula:	C <sub>27</sub> H <sub>36</sub> O <sub>7</sub>	
Molecular Weight:	472.57	HO
Target:	Glucocorticoid Receptor	
Pathway:	Immunology/Inflammation; Vitamin D Related/Nuclear Receptor	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Description	Methylprednisolone aceponate (ZK 91588) is a glucocorticoid and anti-inflammatory agent with weak systemic effects. Methylprednisolone aceponate is a selective glucocorticoid receptor Ligand.Methylprednisolone aceponate can be used for research of eczema and other inflammatory skin disorders <sup>[1][2][3]</sup> .		
In Vitro	Methylprednisolone aceponate inhibits collagenase promoter activity (in HeLa cells), LPS-induced IL-12p40 secretion (in human PBMCs) and phytohemagglutinin-induced IFN-γ secretion (in human PBMCs) with IC <sub>50</sub> s of 9.3, 16.8, 15.2 nM <sup>[3]</sup> . Methylprednisolone aceponate induces MMTV promoter and TAT activities with EC <sub>50</sub> s of 21.8 and 20.5 nM respectively <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	Methylprednisolone aceponate (topically applied, 50 μL,⊠Coroton oil-induced Evan blue edema) shows anti-inflammatory effect with an IC <sub>50</sub> of 0.0015%, with low systemic side effect <sup>[1]</sup> . Methylprednisolone aceponate (0.0001%-0.1%, topically applied) inhibits oedema formation with ED <sub>50</sub> of 0.002% in irritant contact dermatitis in mice and rat <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Irritant contact dermatitis mice and rat <sup>[3]</sup>	
	Dosage:	0.0001%-0.1%	
	Administration:	Topically applied, 10 $\mu L$ for mice and 20 $\mu L$ for rats.	
	Result:	Significantly inhibited ear inflammation.	

## REFERENCES

[1]. Ruzicka T. Methylprednisolone aceponate in eczema and other inflammatory skin disorders -- a clinical update. Int J Clin Pract. 2006 Jan;60(1):85-92.

[2]. H.J. Zentel, et al. Preclinical evaluation of a new topical corticosteroid methylprednisolone aceponate. 1994. 3 (s1), S32-S38.

[3]. Schäcke H, et al. Characterization of ZK 245186, a novel, selective glucocorticoid receptor agonist for the topical treatment of inflammatory skin diseases. Br J Pharmacol. 2009 Oct;158(4):1088-103.

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

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