



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

# PRODUCT INFORMATION



## Mometasone Furoate

Item No. 21365

**CAS Registry No.:** 83919-23-7  
**Formal Name:** 9,21-dichloro-17-[(2-furanylcarbonyl)oxy]-11 $\beta$ -hydroxy-16 $\alpha$ -methyl-pregna-1,4-diene-3,20-dione

**Synonym:** SCH 32088

**MF:** C<sub>27</sub>H<sub>30</sub>Cl<sub>2</sub>O<sub>6</sub>

**FW:** 521.4

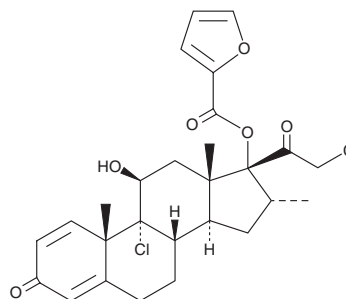
**Purity:**  $\geq$ 98%

**UV/Vis.:**  $\lambda_{\text{max}}$ : 248 nm

**Supplied as:** A crystalline solid

**Storage:** -20°C

**Stability:** As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



### Laboratory Procedures

Mometasone furoate is supplied as a crystalline solid. A stock solution may be made by dissolving the mometasone furoate in the solvent of choice. Mometasone furoate is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of mometasone furoate in ethanol is approximately 1.67 mg/ml and approximately 30 mg/ml in DMSO and DMF.

Mometasone furoate is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, mometasone furoate should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Mometasone furoate has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

Mometasone furoate is a prodrug to mometasone, a glucocorticoid receptor agonist.<sup>1</sup> Like other corticosteroids, mometasone furoate suppresses allergic, inflammatory, and immune responses in various experimental models.<sup>2</sup> Mometasone furoate has been shown to decrease NF- $\kappa$ B activity in a farnesoid X receptor-dependent manner.<sup>3</sup>

### References

1. Smith, C.L. and Kreutner, W. *In vitro* glucocorticoid receptor binding and transcriptional activation by topically active glucocorticoids. *Arzneimittelforschung* **48(9)**, 956-960 (1998).
2. Poachanukoon, O., Koontongkaew, S., Monthanapisut, P., *et al.* Mometasone furoate suppresses PMA-induced MUC-5AC and MUC-2 production in human airway epithelial cells. *Tuberc. Repair. Dis. (Seoul)* **80(1)**, 60-68 (2017).
3. Bijsmans, I.T.G.W., Guercini, C., Pittol, J.M.R., *et al.* The glucocorticoid mometasone furoate is a novel FXR ligand that decreases inflammatory but not metabolic gene expression. *Sci. Rep.* **5(14086)**, 1-12 (2015).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 03/10/2017

#### CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD

ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897

[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM

WWW.CAYMANCHEM.COM