



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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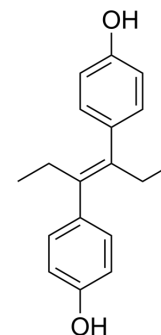
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## Diethylstilbestrol (Standard)

<b>Cat. No.:</b>	HY-14598R
<b>CAS No.:</b>	56-53-1
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>20</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	268.35
<b>Target:</b>	Apoptosis; Autophagy; Estrogen Receptor/ERR
<b>Pathway:</b>	Apoptosis; Autophagy; Vitamin D Related/Nuclear Receptor
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Diethylstilbestrol (Standard) is the analytical standard of Diethylstilbestrol. This product is intended for research and analytical applications. Diethylstilbestrol (Stilbestrol) is a non-steroidal female hormone that has oral activity and can act on menopausal and postmenopausal disorders. Diethylstilbestrol can induce DNA oxidation and Apoptosis of spermatogonial stem cells. Diethylstilbestrol can induce thymocyte Autophagy Diethylstilbestrol is a 11 $\beta$ -hydroxysteroid dehydrogenase 2 (HSD11B2) inhibitor.<sup>[1][2][3][4][5][6][7][8]</sup>

### REFERENCES

- [1]. Troisi, R., et al., Medical conditions among adult offspring prenatally exposed to diethylstilbestrol. *Epidemiology*, 2013. 24(3): p. 430-8.
- [2]. Kebir, O. and M.O. Krebs, Diethylstilbestrol and risk of psychiatric disorders: a critical review and new insights. *World J Biol Psychiatry*, 2012. 13(2): p. 84-95.
- [3]. Li Y, et al. Diethylstilbestrol (DES)-stimulated hormonal toxicity is mediated by ER $\alpha$  alteration of target gene methylation patterns and epigenetic modifiers (DNMT3A, MBD2, and HDAC2) in the mouse seminal vesicle. *Environ Health Perspect*. 2014 Mar;122(3):262-8.
- [4]. Haeno S, et al. Diethylstilbestrol decreased adrenal cholesterol and corticosterone in rats. *J Endocrinol*. 2014 Apr 22;221(2):261-72.
- [5]. Zou QX, et al. Diethylstilbestrol activates CatSper and disturbs progesterone actions in human spermatozoa. *Hum Reprod*. 2017 Feb;32(2):290-298.
- [6]. Singh NP, et al. Diethylstilbestrol (DES) induces autophagy in thymocytes by regulating Beclin-1 expression through epigenetic modulation. *Toxicology*. 2018 Dec 1;410:49-58.
- [7]. Habas K, et al. Diethylstilbestrol induces oxidative DNA damage, resulting in apoptosis of spermatogonial stem cells in vitro. *Toxicology*. 2017 May 1;382:117-121.
- [8]. Wang Y, et al. Diethylstilbestrol inhibits human and rat 11 $\beta$ -hydroxysteroid dehydrogenase 2. *Endocr Connect*. 2019 Jul;8(7):1061-1069.

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

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