



# SZABO SCANDIC

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## Produktinformation



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Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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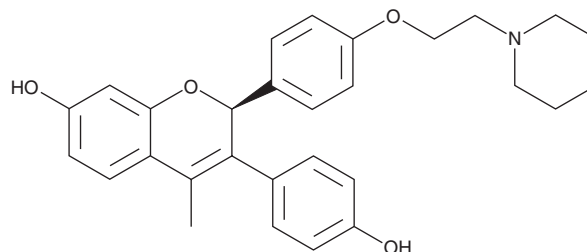
# PRODUCT INFORMATION



## Acolbifene

Item No. 23931

<b>CAS Registry No.:</b>	182167-02-8
<b>Formal Name:</b>	(2S)-3-(4-hydroxyphenyl)-4-methyl-2-[4-[2-(1-piperidinyl)ethoxy]phenyl]-2H-1-benzopyran-7-ol
<b>Synonym:</b>	SCH 57068
<b>MF:</b>	C <sub>29</sub> H <sub>31</sub> NO <sub>4</sub>
<b>FW:</b>	457.6
<b>Purity:</b>	≥98%
<b>Supplied as:</b>	A solid
<b>Storage:</b>	-20°C
<b>Stability:</b>	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Acolbifene is supplied as a solid. A stock solution may be made by dissolving the acolbifene in the solvent of choice. Acolbifene is soluble in the organic solvent DMSO, which should be purged with an inert gas.

### Description

Acolbifene is a selective estrogen receptor modulator (SERM). It inhibits transcriptional activity of estrogen receptor  $\alpha$  (ER $\alpha$ ) and ER $\beta$  induced by estradiol (E<sub>2</sub>; Item No. 10006315; IC<sub>50</sub>s = 2 and 0.4 nM, respectively).<sup>1</sup> It binds to ERs in cytosol from human breast cancer and non-cancerous uterine cells (K<sub>d</sub>s = 0.047 and 0.042 nM, respectively) and to ERs in cytosol from rat uterine cells (IC<sub>50</sub> = 0.44 nM) but not to progesterone or androgen receptors in cytosol from rat uterine and ventral prostate cells (IC<sub>50</sub>s = 22,500 and >10,000 nM, respectively).<sup>1,2</sup> Acolbifene inhibits E<sub>2</sub>-stimulated proliferation of T47D, ZR-75-1, and MCF-7 breast cancer cells (IC<sub>50</sub>s = 0.146, 0.75, and 0.321 nM, respectively) but not basal proliferation.<sup>1</sup> Acolbifene (50  $\mu$ g per day) inhibits tumor growth stimulated by estrone (E<sub>1</sub>; Item No. 10006485) in a ZR-75-1 human breast cancer xenograft model in ovariectomized mice.<sup>3</sup> It also inhibits E<sub>1</sub>-stimulated endometrial epithelium thickening *in vivo* in ovariectomized mice when administered at a dose of 50  $\mu$ g per day.

### References

1. Labrie, F., Labrie, C., Bélanger, A., *et al.* EM-652 (SCH 57068), a third generation SERM acting as pure antiestrogen in the mammary gland and endometrium. *J. Steroid Biochem. Mol. Biol.* **69**(1-6), 51-84 (1999).
2. Martel, C., Provencher, L., Li, X., *et al.* Binding characteristics of novel nonsteroidal antiestrogens to the rat uterine estrogen receptors. *J. Steroid Biochem. Mol. Biol.* **64**(3-4), 199-205 (1998).
3. Gutman, M., Couillard, S., Roy, J., *et al.* Comparison of the effects of EM-652 (SCH57068), tamoxifen, toremifene, droloxifene, idoxifene, GW-5638 and raloxifene on the growth of human ZR-75-1 breast tumors in nude mice. *Int. J. Cancer* **99**(2), 273-278 (2002).

#### 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.

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