



# SZABO SCANDIC

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## Produktinformation



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- 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



## Progesterone-3-biotinyl Photoaffinity Probe

Item No. 9000891

**Formal Name:** N-(3-(2-(((10R,13S,E)-17-acetyl-10,13-dimethyl-1,2,6,7,8,9,10,11,12,13,14,15,16,17-tetradecahydro-3H-cyclopenta[a]phenanthren-3-ylidene)amino)oxy)acetamido)propyl)-2-(2-(2-(5-(2-oxohexahydro-1H-thieno[3,4-d]imidazol-4-yl)pentanamido)ethoxy)ethoxy)-4-(3-(trifluoromethyl)-3H-diazirin-3-yl)benzamide

**Synonyms:**

**MF:** C<sub>51</sub>H<sub>71</sub>F<sub>3</sub>N<sub>8</sub>O<sub>9</sub>S

**FW:** 1,029.2

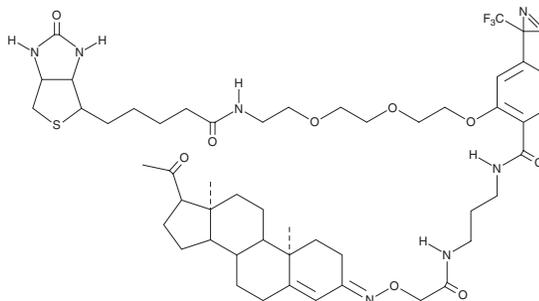
**Purity:** ≥95% (mixture of isomers)

**UV/Vis.:** λ<sub>max</sub>: 242 nm

**Supplied as:** A crystalline solid

**Storage:** -20°C

**Stability:** As supplied, 1 year from the QC date provided on the Certificate of Analysis, when stored properly



### Laboratory Procedures

Progesterone-3-biotinyl photoaffinity probe is supplied as a crystalline solid. A stock solution may be made by dissolving the progesterone-3-biotinyl photoaffinity probe in the solvent of choice. Progesterone-3-biotinyl photoaffinity probe is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of progesterone-3-biotinyl photoaffinity probe in these solvents is approximately 10, 1, and 15 mg/ml, respectively.

Progesterone-3-biotinyl photoaffinity probe is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

### Description

Progesterone 3-biotinyl photoaffinity probe consists of active progesterone, a diazirine-UV (312 nm)-sensitive moiety, and a biotin tag. When activated by light, it binds covalently to its target and, thus, can be used to detect and observe the interaction of progesterone with target proteins. This probe has been used to help characterize the role of the human sperm progesterone receptor in male fertility.<sup>1</sup>

### Reference

1. Miller, M. R., Mannowetz, N., Lavarone, A. T., *et al.* Unconventional endocannabinoid signaling governs sperm activation *via* the sex hormone progesterone. *Science* **352(65285)**, 555-559 (2016).

**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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**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