



# 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

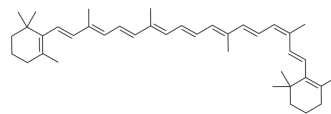
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

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

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

## 9-cis-β-Carotene

Cat. No.:	HY-136234
CAS No.:	13312-52-2
Molecular Formula:	C <sub>40</sub> H <sub>56</sub>
Molecular Weight:	536.87
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	9-cis-β-Carotene, a precursor of retinal, is cleaved by beta-carotene oxygenase 1 (BCMO1) to produce 9-cis-retinal. 9-cis-β-Carotene inhibits photoreceptor degeneration and restores retinal function in vivo. 9-cis-β-Carotene has the potential for the study of congenital stationary night blindness and fundus albipunctatus <sup>[1]</sup> .
<b>In Vitro</b>	9-cis-β-Carotene (1 μM; 18 hours) formulated with the Miglyol 810 and the “antioxidant mix” is incubated to eye cups. The eye cups are isolated from the neuro-retina attached to the underlying RPE tissue from RPE65rd12 mouse. It prevents S- and M-cones degeneration and leads to over 2- and 9- fold higher m-opsin and s-opsin positive staining compares to the control group <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	In a mouse model of retinoid cycle defect, RPE65rd12. Mice with an extract of Dunaliella Bardawil algae rich in 9-cis-β-Carotene (9CBC) rescues retinal function and preserves cone structure by oral administration <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Sher I, et al. Synthetic 9-cis-beta-carotene inhibits photoreceptor degeneration in cultures of eye cups from rpe65rd12 mouse model of retinoid cycle defect. *Sci Rep*. 2018 Apr 17;8(1):6130.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA