



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

www.szabo-scandic.com

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

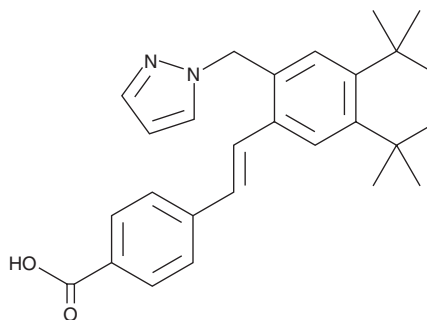
PRODUCT INFORMATION



Palovarotene

Item No. 28460

CAS Registry No.: 410528-02-8
Formal Name: 4-[(1E)-2-[5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-3-(1H-pyrazol-1-ylmethyl)-2-naphthalenyl]ethenyl]-benzoic acid
Synonym: Ro 3300074
MF: C₂₇H₃₀N₂O₂
FW: 414.5
Purity: ≥98%
UV/Vis.: λ_{max}: 321 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

Palovarotene is supplied as a solid. A stock solution may be made by dissolving the palovarotene in the solvent of choice, which should be purged with an inert gas. Palovarotene is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of palovarotene in these solvents is approximately 3, 20, and 25 mg/ml, respectively.

Palovarotene is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, palovarotene should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Palovarotene has a solubility of approximately 0.3 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

Palovarotene an orally bioavailable retinoic acid receptor γ (RAR γ) agonist.¹ It increases retinoic acid response element (RARE) activity and decreases NF- κ B activity induced by IL-1 β in primary mouse stromal cells in reporter assays when used at a concentration of 60 nM.² Palovarotene (10 nM) inhibits activin A-induced chondrogenic and osteogenic differentiation of mouse fibro/adipogenic progenitors (FAPs) expressing a mutated form of human activin A receptor type I (ACVR1^{R206H}).³ It inhibits heterotopic ossification and preserves limb movement and growth in a ACVR1^{R206H} fibrodysplasia ossificans progressiva (FOP) mouse model.⁴ Palovarotene (1 mg/kg per day for 14 days) decreases heterotopic ossification by 50 to 60% in a rat model of traumatic blast injury.⁵

References

1. Hind, M. and Stinchcombe, S. *Curr. Opin. Investig. Drugs* **10(11)**, 1243-1250 (2009).
2. Sinha, S., Uchibe, K., Usami, Y., et al. *Bone* **90**, 59-68 (2016).
3. Lees-Shepard, J.B., Nicholas, S.-A.E., Stoessel, S.J., et al. *Elife* **7**, e40814 (2018).
4. Chakkalakal, S.A., Uchibe, K., Convente, M.R., et al. *J. Bone Miner. Res.* **31(9)**, 1666-1675 (2016).
5. Pavey, G.J., Qureshi, A.T., Tomasino, A.M., et al. *Bone* **90**, 159-167 (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.

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, 10/31/2019

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