



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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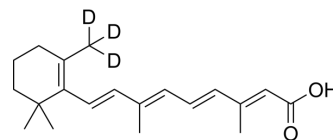
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Retinoic acid-d₃

Cat. No.:	HY-14649S5
CAS No.:	154461-49-1
Molecular Formula:	C ₂₀ H ₂₅ D ₃ O ₂
Molecular Weight:	303.45
Target:	Isotope-Labeled Compounds; RAR/RXR; PPAR; Endogenous Metabolite; Autophagy
Pathway:	Others; Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor; Cell Cycle/DNA Damage; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Retinoic acid-d₃ is the deuterium labeled Retinoic acid (HY-14649). Retinoic acid is a metabolite of vitamin A that plays important roles in cell growth, differentiation, and organogenesis. Retinoic acid is a natural agonist of RAR nuclear receptors, with IC₅₀s of 14 nM for RARα/β/γ. Retinoic acid bind to PPARβ/δ with K_d of 17 nM. Retinoic acid acts as an inhibitor of transcription factor Nrf2 through activation of retinoic acid receptor alpha^{[1][2][3]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Wu L, et al. Retinoid X Receptor Agonists Upregulate Genes Responsible for the Biosynthesis of All-Trans-Retinoic Acid in Human Epidermis. *PLoS One*. 2016 Apr 14;11(4):e0153556.
- [3]. Shaw N, et al. Retinoic acid is a high affinity selective ligand for the peroxisome proliferator-activated receptor beta/delta. *J Biol Chem*. 2003 Oct 24;278(43):41589-92.

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

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