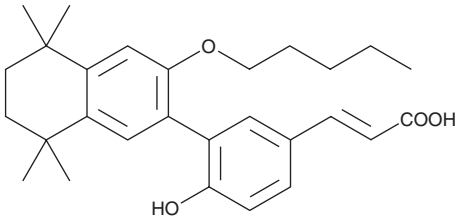
PRODUCT INFORMATION

UVI3003

Item No. 16026

CAS Registry No.: 847239-17-2
Formal Name: 3-[4-hydroxy-3-[5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-3-(pentyloxy)-2-naphthalenyl]phenyl]-2-propenoic acid
MF: $C_{28}H_{36}O_4$
FW: 436.6
Purity: ≥90%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

UVI3003 is supplied as a crystalline solid. A stock solution may be made by dissolving the UVI3003 in the solvent of choice, which should be purged with an inert gas. UVI3003 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of UVI3003 in these solvents is approximately 2, 1, and 0.5 mg/ml, respectively.

Description

UVI3003 is a full antagonist of RXR that demonstrates potent, nanomolar binding affinity.[1] At 1 µM, UVI3003 does not affect the corepressor interaction capacity of the RARα subunit in the RAR-RXR heterodimer configuration.[1] This compound can be used to isolate the contribution of RXR to the function of RXR heterodimers.[1,2]

References

1. Nahoum, V., Pérez, E., Germain, P., *et al.* Modulators of the structural dynamics of the retinoid X receptor to reveal receptor function. *Proc. Natl. Acad. Sci. USA* **104(44)**, 17323-17328 (2007).
2. le Maire, A., Grimaldi, M., Roecklin, D., *et al.* Activation of RXR-PPAR heterodimers by organotin environmental endocrine disruptors. *EMBO reports* **10(4)**, 367-373 (2009).

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