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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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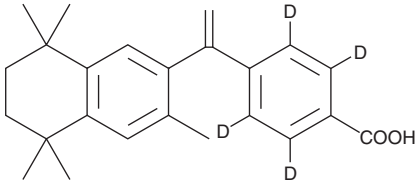
PRODUCT INFORMATION

Bexarotene-d_4

Item No. 22610

Formal Name:	4-[1-(5,6,7,8-tetrahydro-3,5,5,8,8-pentamethyl-2-naphthalenyl)ethenyl]-benzoic acid-d_4
MF:	$C_{24}H_{24}D_4O_2$
FW:	352.5
Chemical Purity:	≥98% (Bexarotene)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_4); ≤1% d_0
UV/Vis.:	λ_{max}: 260 nm
Supplied as:	A crystalline 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

Bexarotene-d_4 is intended for use as an internal standard for the quantification of bexarotene (Item No. 11571) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Bexarotene-d_4 is supplied as a crystalline solid. A stock solution may be made by dissolving the bexarotene-d_4 in the solvent of choice. Bexarotene-d_4 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of bexarotene-d_4 in these solvents is approximately 0.5, 10, and 20 mg/ml, respectively.

Description

Bexarotene is a high-affinity ligand for retinoid X receptors (RXRs) (EC_{50}s = 28, 25, and 20 nM for RXRα, β, and γ, respectively).[1] It inhibits cell cycle progression, induces apoptosis, prevents or overcomes multidrug resistance through multidrug resistance protein 1 (MDR1), and blocks angiogenesis and metastasis, making it a promising chemopreventive agent against cancer.[2,3] Bexarotene also, through RXR activation, stimulates clearance of soluble β-amyloid, reduces plaque area, and reverses deficits related to Alzheimer's disease in mice.[4]

References

1. Boehm, M.F., Zhang, L., Zhi, L., *et al*. Design and synthesis of potent retinoid X receptor selective ligands that induce apoptosis in leukemia cells. *J. Med. Chem.* **38(16)**, 3146-3155 (1995).
2. Bischoff, E.D., Gottardis, M.M., Moon, T.E., *et al*. Beyond tamoxifen: The retinoid X receptor-selective ligand LGD1069 (TARGRETIN) causes complete regression of mammary carcinoma. *Cancer Res.* **58(3)**, 479-484 (1998).
3. Qu, L. and Tang, X. Bexarotene: A promising anticancer agent. *Cancer Chemother. Pharmacol.* **65(2)**, 201-205 (2010).
4. Cramer, P.E., Cirrito, J.R., Wesson, D.W., *et al*. ApoE-directed therapeutics rapidly clear β-amyloid and reverse deficits in AD mouse models. *Science* **335(6075)**, 1503-1506 (2012).

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