

Catalog # 10-2121 Bexarotene

153559-49-0 4-[1-(5,6,7,8-Tetrahydro-3,5,5,8,8-pentamethyl-2-naphthalenyl)ethenyl]benzoic acid LGD-1069, SR-11247 Lot # X106812



A highly potent and selective retinoid X receptor (RXR) agonist (EC₅₀=28, 25, 20 nM for RXR α , β , γ respectively)¹. Clinically useful antineoplastic agent for cutaneous T-cell lymphoma² Causes complete regression of mammary carcinoma³. Bexarotene significantly increases clearance of soluble β -amyloid in a mouse Alzheimer's model and increases cognitive ability⁴. Reverses apoE4-driven brain pathology and behavioral deficits *in vivo*⁵.

- 1) Boehm et al. (1995), Design and synthesis of potent retinoid X receptor selective ligands that induce apoptosis in leukemia cells; J. Med. Chem., **38** 3146
- 2) Gniadecki et al. (2007), The optimal use of bexarotene in cutaneous T-cell lymphoma; Br. J. Dermatol., 157 433
- 3) Bischoff et al. (1998), Beyond tamoxifen: the retinoid X receptor-selective ligand LGD1069 (TARGRETIN) causes complete regression of mammary carcinoma; Cancer Res., **58** 479
- 4) Cramer et al. (2012), ApoE-directed herapeutics rapidly clear β-amyloid and reverse deficits in AD mouse models; Science, 335 1503
- 5) Boehm-Cagan & Michaelson (2014), *Reversal of apoE4-driven brain pathology and behavioral deficits by bexarotene*; J. Neurosci., **34** 7293

PHYSICAL DATA

Molecular Weight:	348.49
Molecular Formula:	C ₂₄ H ₂₈ O ₂
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 60 mg/ml) or Ethanol (up to 10 mg/ml with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in
	DMSO or ethanol may be stored at -20°C for up to 1 week.

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