



LKT Laboratories, Inc.

## Bexarotene

Phone: 888-558-5227

651-644-8424

Fax: 888-558-7329

Email: [getinfo@lktlabs.com](mailto:getinfo@lktlabs.com)

Web: [lktlabs.com](http://lktlabs.com)

### Product Information

Product ID B1992

CAS No. 153559-49-0

#### Chemical Name

Synonym Targretin, Targretyn, LGD-1069

Formula  $C_{24}H_{28}O_2$

Formula Wt. 348.48

#### Melting Point

Purity  $\geq 98\%$

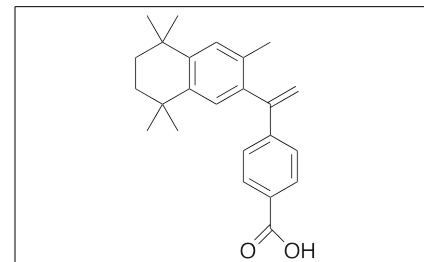
Solubility Practically insoluble in water. Soluble in DMSO ( $\geq 60$  mg/ml).

Store Temp  $-20^{\circ}C$

Ship Temp Ambient

#### Description

Bexarotene is a retinoid compound that binds and activates retinoid X receptors (RXRs) and is approved to treat cutaneous T cell lymphoma. Bexarotene displays a wide variety of beneficial activities, such as anticancer chemotherapeutic, anti-hyperlipidemic, and neuroprotective properties. Bexarotene has shown pre-clinical and clinical efficacy in treatment of other cancers, increasing apoptosis and inducing tumor regression in vitro and in vivo. Bexarotene's activation of RXRs also results in activation of PPAR $\alpha$  signaling, decreasing triglyceride levels and increasing HDL cholesterol levels in vivo. This compound interacts with nuclear hormone receptor Nurr1-RXR heterodimers, reversing behavioral deficits induced by 6-OH DA in rat models of Parkinson's disease. Additionally, bexarotene activation of RXRs induces ApoE-dependent clearance of amyloid-B (A $\beta$ ) peptides and plaques, reversing cognitive deficits in animal models of Alzheimer's disease.



**Bulk quantities available upon request**

#### Product ID Size

B1992 25 mg

B1992 100 mg

B1992 250 mg

**References** McFarland K, Spalding TA, Hubbard D, et al. Low Dose Bexarotene Treatment Rescues Dopamine Neurons and Restores Behavioral Function in Models of Parkinson's Disease. ACS Chem Neurosci. 2013 Oct 11. [Epub ahead of print]. PMID: 24117438.

Schadt CR. Topical and oral bexarotene. Dermatol Ther. 2013 Sep;26(5):400-3. PMID: 24099070.

Aicardi G. New Hope from an Old Drug: Fighting Alzheimer's Disease with the Cancer Drug Bexarotene (Targretin)? Rejuvenation Res. 2013 Sep 19. [Epub ahead of print]. PMID: 24047423.

Quéreux G, Saint-Jean M, Peuvrel L, et al. Bexarotene in cutaneous T-cell lymphoma: third retrospective study of long-term cohort and review of the literature. Expert Opin Pharmacother. 2013 Sep;14(13):1711-21. 10. PMID: 23837676.

Mukherjee R, Strasser J, Jow L, et al. RXR agonists activate PPAR $\alpha$ -inducible genes, lower triglycerides, and raise HDL levels in vivo. Arterioscler Thromb Vasc Biol. 1998 Feb;18(2):272-6. PMID: 9484993.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.