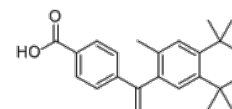


**Product Name** : Bexarotene  
**Cat. No.** : PC-20769  
**CAS No.** : 153559-49-0  
**Molecular Formula** : C<sub>24</sub>H<sub>28</sub>O<sub>2</sub>  
**Molecular Weight** : 348.49  
**Target** : RAR/RXR  
**Solubility** : 10 mM in DMSO



CAS: 153559-49-0

## Biological Activity

Bexarotene (LGD1069) is a highly potent and selective retinoid X receptors (**RXR**) agonist with EC<sub>50</sub> of 33, 24, 25 nM for RXR $\alpha$ , RXR $\beta$ , and RXR $\gamma$  respectively, with no affinity for RAR receptors.

Bexarotene (LGD1069) selectively binds and activates RXR subtypes with K<sub>d</sub>=14 nM, 21 nM, and 29 nM for RXR $\alpha$ , RXR $\beta$ , and RXR $\gamma$  receptors.

Bexarotene (LGD1069) activates both RXR/RXR homodimers and RAR/RXR heterodimers, could inhibit clonal growth and induce differentiation of HL-60 cells as well as leukemic cells from patients.

The combination of ATRA and LGD1069 showed synergistic effects in inducing differentiation of HL-60 cells.

Bexarotene (LGD1069) can act as a highly effective and benign chemopreventive agent for mammary carcinoma.

## References

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**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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