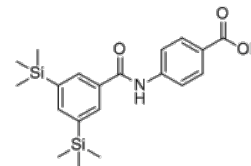


**Product Name** : Amsilarotene  
**Cat. No.** : PC-20433  
**CAS No.** : 125973-56-0  
**Molecular Formula** : C<sub>20</sub>H<sub>27</sub>NO<sub>3</sub>Si<sub>2</sub>  
**Molecular Weight** : 385.61  
**Target** : RAR/RXR  
**Solubility** : 10 mM in DMSO



## Biological Activity

Amsilarotene (TAC-101) is a retinobenzoic acid with potential antineoplastic activity, shows selective affinity for RAR $\alpha$  with binding K<sub>i</sub> of 2.4 nM.

Amsilarotene inhibits retinoblastoma-gene product (RB) phosphorylation and increases the presence of 2 cyclin-dependent kinase (CDK) inhibitors, resulting in cell cycle arrest.

Amsilarotene also causes a cytotoxic decline in cyclin A and thymidylate synthase expression.

Amsilarotene induces the apoptotic of human gastric cancer, hepatocellular carcinoma and ovarian carcinoma cells.

## References

Rizvi NA, et al. J Clin Oncol. 2002 Aug 15;20(16):3522-32.

Sakukawa R, et al. Oncol Res. 1998;10(6):287-93.

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

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