

## Product Datasheet

### Retinoic acid (orb1309934)

<b>Catalog Number</b>	orb1309934
<b>Category</b>	Small Molecules
<b>Description</b>	Tretinoin, a vitamin A metabolite, is a potent natural agonist of retinoic acid receptors (RAR $\alpha$ / $\beta$ / $\gamma$ ) with an IC <sub>50</sub> of 14 nM. It is widely used in research to study cellular differentiation, proliferation, and tumorigenesis in both in vitro and in vivo models of oncology and dermatology.
<b>Target</b>	Retinoid receptor and related
<b>Form/Appearance</b>	powder
<b>Purity</b>	>98%
<b>MW</b>	300.4
<b>Biological Activity</b>	Retinoid RAR agonist
<b>Target Areas</b>	Autophagy Endogenous Metabolite Retinoid Receptor PPAR
<b>Solubility (25°C)</b>	Soluble in DMSO (up to 8 mg/ml) or in Ethanol (up to 15 mg/ml).
<b>CAS Number</b>	302-79-4
<b>Formula</b>	C <sub>20</sub> H <sub>28</sub> O <sub>2</sub>
<b>SMILES</b>	<chem>C(=C/C(=C/C=C/C(=C/C(O)=O)/C)/C)\C=1C(C)(C)CCCC1C</chem>
<b>Chemical Name</b>	3,7-Dimethyl-9-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2E,4E,6E,8E,-nonatetraenoic acid
<b>Storage</b>	-20°C
<b>Note</b>	For research use only

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**Expiration Date**

12 months from date of receipt.

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