

## Product Datasheet

### Isotretinoin (orb1308025)

<b>Catalog Number</b>	orb1308025
<b>Category</b>	Small Molecules
<b>Description</b>	Isotretinoin (13-cis-Retinoic acid) is a natural retinoic acid that activates nuclear RARs to modulate gene expression, promoting cellular differentiation and apoptosis. It is widely used in oncology, dermatology, and immunology research, demonstrating antineoplastic, anti-inflammatory, and keratinization-inhibiting effects in both in vitro and in vivo studies.
<b>Target</b>	Endogenous Metabolite, Autophagy, Retinoid Receptor
<b>Purity</b>	99.61% (May vary between batches)
<b>MW</b>	300.44
<b>Target Areas</b>	Autophagy Endogenous Metabolite Retinoid Receptor
<b>Solubility (25°C)</b>	10% DMSO+40% PEG300+5% Tween 80+45% Saline:2 mg/mL (6.66 mM); Ethanol:1 mg/mL (3.33 mM); DMSO:250 mg/mL (832.11 mM)
<b>CAS Number</b>	4759-48-2
<b>Formula</b>	$C_{20}H_{28}O_2$
<b>SMILES</b>	<chem>C(=C/C(=C/C=C/C(=C\C(O)=O)/C)/C)\C=1C(C)(C)CCCC1C</chem>
<b>Storage</b>	Powder: -20°C for 3 years   Shipping with blue ice/Shipping at ambient temperature.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

#### Biorbyt Ltd.

7 Signet Court, Swann Road  
Cambridge  
CB5 8LA  
United Kingdom

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

#### Biorbyt LLC

68 TW Alexander Drive  
Research Triangle Park  
Durham  
NC 27713  
United States

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558