



LKT Laboratories, Inc.

13-cis-Retinoic Acid

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Product Information

Product ID R1779

CAS No. 4759-48-2

Chemical Name 3,7-Dimethyl-9-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2-cis-4-trans-6-trans-8-trans-nonatetraenoic acid

Synonym Isotretinoin, Isotrex, 13-cis-Vitamin A acid, Teriosal

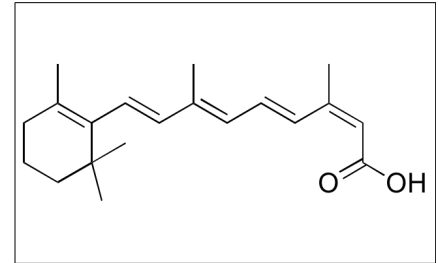
Formula C₂₀H₂₈O₂

Formula Wt. 300.44

Melting Point 174-175°C

Purity 98%

Solubility Sparingly soluble in water.



Bulk quantities available upon request

Product ID	Size
R1779	100 mg
R1779	250 mg
R1779	500 mg

Store Temp -80°C

Ship Temp Ambient

Description 13-cis Retinoic acid is an agonist at retinoic acid receptors (RARs) and retinoic X receptors (RXRs); it is clinically used to treat brain cancers and acne vulgaris and exhibits anticancer chemotherapeutic, antioxidative, and anti-inflammatory activities. 13-cis Retinoic acid induces differentiation of various cell types. In animal models of colitis, this compound decreases activity of myeloperoxidase, levels of IL-12, and release of pro-inflammatory cytokines. In vitro, 13-cis retinoic acid also inhibits expression of the angiotensin 1 (AT-1) receptor.

References Shah N, Wang J, Selich-Anderson J, et al. PBX1 is a favorable prognostic biomarker as it modulates 13-cis retinoic acid-mediated differentiation in neuroblastoma. *Clin Cancer Res.* 2014 Aug 15;20(16):4400-12. PMID: 24947929.

Frey-Wagner I, Fischbeck A, Cee A, et al. Effects of retinoids in mouse models of colitis: benefit or danger to the gastrointestinal tract? *Inflamm Bowel Dis.* 2013 Oct;19(11):2356-65. PMID: 23899542.

Snyder R, Thekkumkara T. 13-cis-Retinoic acid specific down-regulation of angiotensin type 1 receptor in rat liver epithelial and aortic smooth muscle cells. *J Mol Endocrinol.* 2012 Feb 6;48(2):99-114. PMID: 22180636.

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