13-cis Retinoic Acid

**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, Isotrexa, 13-cis-Vitamin A acid, Teriosal

**Formula**: C_{20}H_{28}O_{2}

**Formula Wt.**: 300.44

**Melting Point**: 174-175°C

**Purity**: 98%

**Solubility**: Sparingly soluble in water.

**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**


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