

## Retinoic acid, Retinoid RAR agonist

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Catalog	Unit
TBI1138-50MG	50 mg
TBI1138-500MG	500 mg

### Product Details

**Formal Name:** 3,7-Dimethyl-9-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2E,4E,6E,8E,-nonatetraenoic acid

**Alternate Names:** ATRA; Tretinoin

**Molecular Formula:** C<sub>20</sub>H<sub>28</sub>O<sub>2</sub>

**Formula Weight:** 300.44

**CAS Number:** 302-79-4

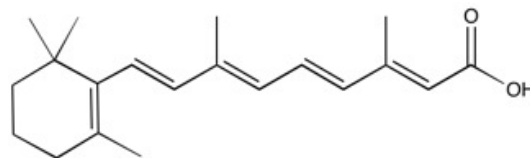
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 8 mg/ml) or in Ethanol (up to 15 mg/ml).

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

Retinoid RAR agonist

### Functions

all-trans-Retinoic acid (ATRA; a metabolite of Vitamin A) is an endogenous ligand for the retinoic acid receptor (RAR). The binding of retinoic acid to the RAR and retinoid X (RXR) heterodimer causes conformation changes in RAR that affects the binding of other proteins that regulate the growth and differentiation of a variety of both normal and malignant cells. ATRA promotes differentiation of embryonic stem cells (ESCs) into a variety of cell types in vitro.

### Application Procedures

First dissolved in DMSO (up to 8 mg/ml) or in Ethanol (up to 15 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

**For research use only.**