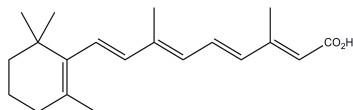


PRODUCT: Retinoic acid**ALTERNATE NAME:** ATRA; Tretinoin; NSC 122758; Vitamin A Acid; all-*trans* Retinoic Acid; NSC 122578**CATALOG #:** 2218-50, 250**AMOUNT:** 50 mg, 250 mg**STRUCTURE:****MOLECULAR FORMULA:** C₂₀H₂₈O₂**MOLECULAR WEIGHT:** 300.44**CAS NUMBER:** 302-79-4**APPEARANCE:** Yellow solid with an orange cast**SOLUBILITY:** DMSO (20 mg/ml) or Ethanol (0.5 mg/ml)**PURITY:** ≥98% by titration**STORAGE:** At -20°C. Protect from air and light**DESCRIPTION:** Retinoic acid is a metabolite of vitamin A that acts as a ligand for both the retinoic acid receptor (RAR) and the retinoid X receptor (RXR). RAR and RXR heterodimerize and act as ligand-dependent transcriptional regulators, with roles in development, reproduction, immunity, organogenesis, and cancer. Retinoic acid primes embryonic stem cells to become neurons.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**

Aurintricarboxylic Acid (**Cat. No. 1506-1000**)
BODIPY-Cyclopamine (Cat. No. 2160-50, 250)
Cyclopamine (**Cat. No. 1578-5**)
Cyclopamine-KAAD (**Cat. No. 1910-50**)
GANT58 (**Cat. No. 1812-5, 25**)
GANT61 (**Cat. No. 1892-5**)
GDC-0449 (**Cat. No. 1890-5, 25**)
Hh Signaling Pathway Antagonist (**Cat. No. 1659-1**)
DiscoveryPak™ hedgehog Signaling Pathway Antagonists Set (**Cat. No. K868-6**)
Itraconazole (**Cat. No. 1987-50, 100, 500, 1000**)
JK-184 (**Cat. No. 1726-1**)
Phorbol-12-myristate-13-acetate (PMA) (**Cat. No. 1544-5**)
Purmorphamine (**Cat. No. 1672-5**)
Robotnikinin (**Cat. No. 1923-1**)
SANT-1 (**Cat. No. 1978-1,5**)
SANT-2 (**Cat. No. 1976-1, 5**)
Smo Antagonist, SA1 (**Cat. No. 2154**)
Smo Antagonist, SA9 (**Cat. No. 2155**)
Smo Antagonist, SA10 (**Cat. No. 2159**)
Sonic Hedgehog, human recombinant (**Cat. No. 4010-25, 100, 1000**)
Sonic Hedgehog, murine recombinant (**Cat. No. 4020-25, 100, 1000**)
Tomatidine hydrochloride (**Cat. No. 1893-25**)

USAGE: *FOR RESEARCH CH USE ONLY! Not to be used in humans*