

All-Trans Retinoic Acid Biochemical

All-Trans Retinoic Acid

CATALOG #
AAA79338

APPLICATIONS
Functional Assay

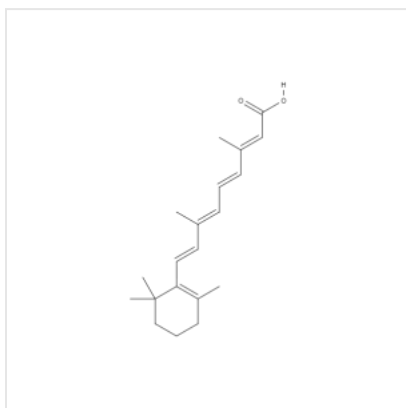
PRODUCT SYNONYMS

All-Trans Retinoic Acid; NSC 122578; Vitamin A Acid; Tretinoin; ATRA; (2E; 4E; 6E; 8E)-3, 7-dimethyl-9-(2; 6; 6-trimethylcyclohexen-1-yl)nona-2; 4; 8-tetraenoic acid; All-Trans Retinoic Acid biochemical

PRODUCT SPECIFICATIONS

Purity/Purification	≥98%
Form/Format	Crystalline solid
Applicable Applications for All-Trans Retinoic Acid biochemical	FA (Functional Assay)
Molecular Formula	C ₂₀ H ₂₈ O ₂
CAS Number	302-79-4
Preparation	Soluble in organic solvents such as ethanol or DMSO. DMSO up to 65mM
Preparation and Storage	Product should be kept at -20 degree C.

IMAGES



Structure

ADDITIONAL INFORMATION

Related Product Information for All-Trans Retinoic Acid biochemical

Retinoic Acid is vitamin A derivative that is an agonist for the retinoic acid receptors, which act as transcription factors that regulate the growth and differentiation of normal and malignant cells. It is reported to promote the differentiation of embryonic cells into motor neurons, pancreatic progenitors and cardiomyocytes.

References

Dani, C., Smith, A. G., Dessolin, S., Leroy, P., Staccini, L., Villageois, P.,... & Ailhaud, G. (1997). Differentiation of embryonic stem cells into adipocytes in vitro. *Journal of cell science*, 110(11), 1279-1285.

Wobus, A. M., Kaomei, G., Shan, J., Wellner, M. C., Rohwedel, J., Guanju, J.,... & Franz, W. M. (1997). Retinoic acid accelerates embryonic stem cell-derived cardiac differentiation and enhances development of ventricular cardiomyocytes. *Journal of molecular and cellular cardiology*, 29(6), 1525-1539.

Takahashi, J., Palmer, T. D., & Gage, F. H. (1999). Retinoic acid and neurotrophins collaborate to regulate neurogenesis in adult-derived neural stem cell cultures. *Journal of neurobiology*, 38(1), 65-81.

NCBI AND UNIPROT INFORMATION

Molecular Weight

300.4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/all-trans-retinoic-acid/79338>