Retinoic acid, all trans

Retinoic acid receptor ligand

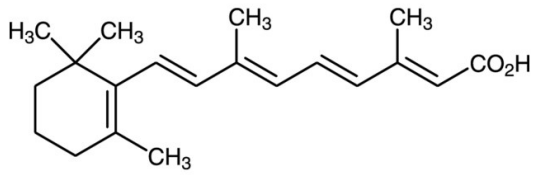
Retinoic acid is the active metabolite of vitamin A. It is a potent modulator of growth and differentiation exerting its effects by binding to nuclear retinoic acid receptors (RARs) which directly regulate gene expression. All trans retinoic acid binds to RAR α, β and γ subtypes with Kd values of 0.2, 0.4 and 0.2 nM respectively. RARs function as ligand-dependent transcription factors. Retinoic Acid also promotes the differentiation of mouse embryonic stem cells into adipocytes, neurons and glia in vitro. It guides development of the posterior part of the embryo.

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BML-GR100-0500	500mg
BML-GR100-5000	5g

Manuals, SDS & CofA View Online »


H3C
CH3
CH3
CH3
CO2H
CH3

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Appearance	Yellow solid.
CAS	302-79-4
Couple Target	Retinoic acid receptor
Couple Type	Ligand
Formula	$C_{20}H_{28}O_2$
MW	300.4
Purity	≥95%
Solubility	Soluble in DMSO (25 mg/ml) or ethanol (10 mg/ml).

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ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

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