[Toutes les photos \(2\)](#)

Documents

[↓ FDS](#)[🔍 COO/COA](#)[📄 Fiche des caractéristiques](#)[Plus de documents »](#)**R2625** ▶ **Sigma-Aldrich.**

Retinoic acid

★★★★★ (0)

≥98% (HPLC), powder

Synonyme(s):

ATRA, Tretinoin, Vitamin A acid, all-*trans*-Retinoic acid

Empirical Formula (Hill Notation):

C₂₀H₂₈O₂Numéro CAS: **302-79-4**

Beilstein: 2057223

Numéro MDL: **MFCD00001551**

NACRES: NA.77

Poids moléculaire: 300.44

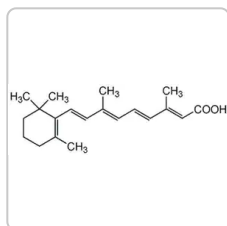
Numéro EC: **206-129-0**ID de substance PubChem: **24278674**

Référence	Conditionnement	Disponibilité	Prix	Quantité
R2625-50MG	50 MG	✓ Date d'expédition estimée le 10 octobre 2022	Détails... 56,10 €	- + 
R2625-100MG	100 MG	✓ Only 1 left in stock (more on the way)	Détails... 94,40 €	- + 
R2625-500MG	500 MG	✓ Only 2 left in stock (more on the way)	Détails... 215,00 €	- + 
R2625-1G	1 G	✓ Only 5 left in stock (more on the way)	Détails... 387,00 €	- + 

Référence	Conditionnement	Disponibilité	Prix	Quantité
R2625-5G	5 G	✓ Only 1 left in stock (more on the way) Détails...	821,00 €	- + i

[Demander une commande en gros](#)[Ajouter au panier](#)

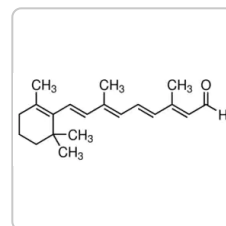
PRODUITS RECOMMANDÉS



Millipore

554720***trans*-Retinoic Acid - CAS 302-79-4 - Calbiochem**

Potent modulator of growth and differentiation. Inhibits melanocyte adhesion, motility, and growth.

[Consulter le prix et la disponibilité](#)

Sigma-Aldrich

R2500**all *trans*-Retinal**
powder, ≥98%[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Source biologique	synthetic (organic)
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Niveau de qualité	200
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Essai/Dosage	≥98% (HPLC)
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Forme	powder
technique(s)	cell culture mammalian: suitable
Couleur	yellow
Pf	180-181 °C (lit.)
Solubilité	chloroform: 50 mg/mL
Temp. de stockage	-20°C
SMILES string	<chem>CC1=C\C=C\C(C)=C\C=C\C(C)=C\C(O)=O)C(C)(C)CCC1</chem>
InChI	1S/C20H28O2/c1-15(8-6-9-16(2)14-19(21)22)11-12-18-17(3)10-7-13-20(18,4)5/h6,8-9,11-12,14H,7,10,13H2,1-5H3,(H,21,22)/b9-6+,12-11+,15-8+,16-14+
InChI key	SHGAZHPCJJPHSC-YCNIQYBTSA-N
Gene Information	human ... RARA(5914) , RARB(5915) , RARG(5916) , RXRA(6256) , RXRB(6257) , RXRG(6258) mouse ... Rara(19401) , Rarb(218772) , Rarg(19411) , Rxrb(20182)

Vous recherchez des produits similaires ? Visitez [Guide de comparaison des produits](#)

Catégories apparentées

Vitamins

DESCRIPTION

Application

- Retinoic acid (RA) has been used for the differentiation of embryonic stem cells into motor neurons.
- It has been used for the differentiation of *Xenopus* ectoderm into pancreas.
- It has also been used to study epigenetic regulation by RAR α (retinoic acid receptor α).
- It has been used to study RA signaling of prospermatogonia transition into spermatogonia.

Conditionnement

50, 100, 500 mg in ampule

1, 5 g in ampule

Actions biochimiques/physiologiques

all-trans-Retinoic acid (ATRA) is a ligand for both the retinoic acid receptor (RAR) and the retinoid X receptor (RXR). The bound RAR and RXR act as transcription factors that regulate the growth and differentiation of both normal and malignant cells. Cytochromes P450 (CYPs) catalyze the 4-hydroxylation of ATRA. Retinoic acid primes embryonic stem cells to become neurons.

Caractéristiques et avantages

This compound is featured on the [Nuclear Receptors \(Non-Steroids\)](#) page of the Handbook of Receptor Classification and Signal Transduction. To browse other handbook pages, [click here](#).

Autres remarques

Tandem Mass Spectrometry data independently generated by Scripps Center for Metabolomics is available to view or download in PDF. [R2625.pdf](#) Tested metabolites are featured on Scripps Center for Metabolomics METLIN Metabolite Database. To learn more, visit [sigma.com/metlin](https://www.sigma.com/metlin).

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS07,GHS08,GHS09

Mention d'avertissement

Danger

Mentions de danger

H302 - H315 - H360FD - H410

Conseils de prudence

P202 - P264 - P273 - P301 +
P312 - P302 + P352 - P308 +
P313

Classification des risques

Acute Tox. 4 Oral - Aquatic
Acute 1 - Aquatic Chronic 1 -
Repr. 1B - Skin Irrit. 2

Code de la classe de stockage

6.1C - Combustible, acute
toxic Cat.3 / toxic compounds
or compounds which causing
chronic effects

WGK

WGK 2

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

Équipement de protection individuelle

dust mask type N95 (US),
Eyeshields, Gloves

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

Comment saisir un numéro de lot (COA)

Rechercher

Certificat d'origine

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

Comment saisir un numéro de lot (COO)

Rechercher

Plus De Documents

[FT-NMR Spectra](#)

[Spectra - ATR-IR](#)

[Spectra for FT-IR Raman](#)

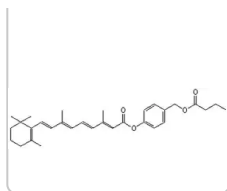
[Structure Search](#)

[FDS](#)

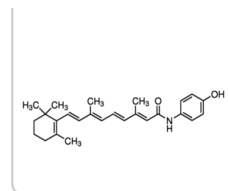
LES CLIENTS ONT ÉGALEMENT CONSULTÉ

 Millipore

 Sigma-Aldrich

**554723-M****ATRA-BA Hybrid - Calbiochem**

The differentiation-inducer all-*trans*-Retinoic Acid and the histone deacetylase inhibitor (HDI) Butyric Acid.

[Consulter le prix et la disponibilité](#)**H7779****Retinoic acid p-hydroxyanilide**

≥95%

[Consulter le prix et la disponibilité](#)

QUESTIONS FRÉQUEMMENT POSÉES (FAQ)

What are the I.U. for Product R2625, Retinoic acid?

This product is not characterized by the activity in I.U. The purity specification, however, is not less than 98% by HPLC.

How should I store the solutions of Product R2625, Retinoic acid?

Retinoic acid is sensitive to air and light. Solutions should be stored under argon gas, preferably as aliquots at -70°C.

What is the shelf life of Product R2625, Retinoic acid?

R2625 has a shelf-life of two years. Shelf-life dates are found on Specification sheet on our website.

Why is Product R2625, Retinoic acid not shipped on dry ice?

Dry ice is not necessary for shipment, since Product No. R2625 is stable to ship at ambient temperature for up to two weeks. Once received, it should be stored at -20°C.

Which document(s) contains shelf-life or expiration date information for a given product?

If available for a given product, the recommended re-test date or the expiration date can be found on the Certificate of Analysis.

How do I get lot-specific information or a Certificate of Analysis?

The lot specific COA document can be found by entering the lot number above under the "Documents" section.

How do I find price and availability?

There are several ways to find pricing and availability for our products. Once you log onto our website, you will find the price and availability displayed on the product detail page. You can contact any of our Customer Sales and Service offices to receive a quote. USA customers: 1-800-325-3010 or view [local office numbers](#).

What is the Department of Transportation shipping information for this product?

Transportation information can be found in Section 14 of the product's (M)SDS. To access the shipping information for this material, use the link on the product detail page for the product.

My question is not addressed here, how can I contact Technical Service for assistance?

Ask a Scientist [here](#).

ARTICLES REVUS PAR DES PAIRS

Formation of organotypic testicular organoids in microwell culture†.

Sadman Sakib et al.

Biology of reproduction, 100(6), 1648-1660 (2019-03-31)

Three-dimensional (3D) organoids can serve as an in vitro platform to study cell-cell interactions, tissue development, and toxicology. Development of organoids with tissue architecture similar to testis in vivo has remained a challenge. Here, we present a microwell aggregation approach

Recovery from paralysis in adult rats using embryonic stem cells.

Deshpande DM et al.

Annals of Neurology, 60, 32-32 (2006)

Retinoic acid induces multiple hallmarks of the prospermatogonia-to-spermatogonia transition in the neonatal mouse.

Busada JT et al.

Biology of Reproduction, 90, 64-64 (2014)

Epigenetic regulation by RARa maintains ligand-independent transcriptional activity.**Laursen KB et al.***Nucleic Acids Research*, 40, 102-102 (2012)**Vedolizumab-mediated integrin $\alpha 4\beta 7$ blockade does not control HIV-1SF162 rebound after combination antiretroviral therapy interruption in humanized mice.****Lijun Ling et al.***AIDS (London, England)*, 33(4), F1-F12 (2019-03-05)

The combined combination antiretroviral therapy (cART) and anti- $\alpha 4\beta 7$ RM-Act-1 antibody therapy allows macaques to durably control simian immunodeficiency virus (SIV) rebound after withdrawal of the interventions. Here, we aimed to investigate whether vedolizumab (VDZ), a clinical-grade humanized anti- $\alpha 4\beta 7$ antibody, would

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Derivation of Functional Oligodendrocyte Progenitor Cells (OPCs) from Human Neural Stem Cell Lines

Derivation and characterization of functional human neural stem cell derived oligodendrocyte progenitor cells (OPCs) that efficiently myelinate primary neurons in culture.

Retinoic Acid and Gene Expression

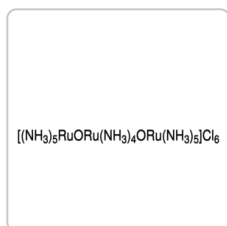
All-trans retinoic acid (RA, ATRA) is a pleiotropic activation factor that regulates genes associated with normal vertebrate cellular processes such as cell differentiation, cell proliferation, apoptosis, and embryonic development.

Protocoles

Neural Stem Cell Culture Protocols

Step-by-step culture protocols for neural stem cell culture including NSC isolation, expansion, differentiation and characterization.

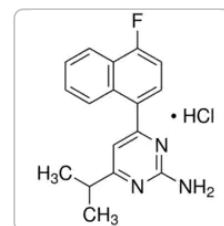
PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

R2751**Ruthenium Red**

Technical grade

[Consulter le prix et la disponibilité](#)

Sigma-Aldrich

R2533**RS-127445 hydrochloride**

≥98% (HPLC), powder

[Consulter le prix et la disponibilité](#)

Évaluations

[Soyez le premier à donner votre avis sur ce produit](#)

Questions

[Soyez le premier à poser une question](#)

SERVICE TECHNIQUE

Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

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