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

Documents

[FDS](#)[COO/COA](#)[Plus de documents »](#)**700021P Avanti**

27-hydroxycholesterol

cholest-(25R)-5-ene-3 β ,27-diol, powder

Synonyme(s):

27-hydroxycholesterol(25R); cholest-5-ene-3 β ,27-diol, (25R); 110818

Empirical Formula (Hill Notation):

C₂₇H₄₆O₂

Numéro CAS:

20380-11-4

Poids moléculaire:

402.65

NACRES:

NA.25

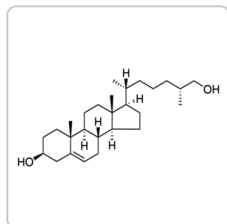


Une ou plusieurs taille(s) de conditionnement de ce produit ont été interrompues, mais celles présentées sont toujours disponibles à l'achat.

Référence	Conditionnement	Disponibilité		Prix	Quantité	
700021P-1MG	1 MG	Only 5 left in stock (more on the way)	Détails...	115,00 €	- +	
700021P-5MG	5 MG	Only 2 left in stock (more on the way)	Détails...	430,00 €	- +	
700021P-25MG	25 MG	Only 5 left in stock (more on the way)	Détails...	1 190,00 €	- +	

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

PRODUITS RECOMMANDÉS



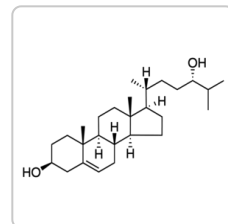
Sigma-Aldrich

SML2042

27-hydroxycholesterol

≥98% (HPLC)

[Consulter le prix et la disponibilité](#)



Avanti

700061P

24(S)-hydroxycholesterol

cholest-5-ene-3 β ,24(S)-diol, powder

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Essai/Dosage >99% (TLC)

Forme powder

Conditionnement
pkg of 1 × 1 mg (700021P-1mg)
pkg of 1 × 25 mg (700021P-25mg)
pkg of 1 × 5 mg (700021P-5mg)

manufacturer/tradename Avanti Polar Lipids 700021P

Expédié(e)s dans dry ice

Temp. de stockage	-20°C
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InChI	1S/C27H46O2/c1-18(17-28)6-5-7-19(2)23-10-11-24-22-9-8-20-16-21(29)12-14-26(20,3)25(22)13-15-27(23,24)4/h8,18-19,21-25,28-29H,5-7,9-17H2,1-4H3/t18-,19-,21+,22+,23-,24+,25+,26+,27-/m1/s1
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InChI key	FYHRJWMENCALJY-YSQMORBQSA-N
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Vous recherchez des produits similaires ? Visitez [Guide de comparaison des produits](#)

DESCRIPTION

Description générale

27-hydroxycholesterol (27-HC) is synthesized from cholesterol by the action of sterol 27-hydroxylase in liver. It is an abundant oxysterol in the circulation ranging from 0.15 to 0.73 μ M. 27-HC serves as a substrate for bile synthesis.

Application

27-hydroxycholesterol has been used:

- to test its inhibitory effect on hepatic lipid accumulation
- as liver X receptor (LXR) ligand in breast cancer cell lines
- as a control in liquid chromatography with tandem mass spectrometry (LC-MS-MS) for the quantitation of 25-OHC in jejunum samples

Actions biochimiques/physiologiques

27-hydroxycholesterol (27-HC) is a weak liver X receptor (LXR) agonist and a selective estrogen receptor modulator (SERM). Elevated levels of 27-HC is observed in hypercholesterolemia. 27-HC is implicated in breast cancer tumor and glioblastoma progression. 27-HC may help in treating non-alcoholic steatohepatitis. Elevated levels of 27-HC is associated with atherosclerotic lesions.

Conditionnement

5 mL Amber Glass Screw Cap Vial (700021P-1mg)

5 mL Amber Glass Screw Cap Vial (700021P-25mg)

5 mL Amber Glass Screw Cap Vial (700021P-5mg)

PRODUITS APPARENTÉS

Souvent Commandé Avec Ce Produit

700019P

25-hydroxycholesterol, cholest-5-ene-3 β ,25-diol, powder

[View Pricing](#)

700035P

7 β -hydroxycholesterol, cholest-5-en-3 β ,7 β -diol, powder

[View Pricing](#)

700061P

24(S)-hydroxycholesterol, cholest-5-ene-3 β ,24(S)-diol, powder

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage

13 - Non Combustible Solids

WGK

WGK 3

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

DOCUMENTATION

Certificat d'analyse

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

Numéro de lot

e.g. 023J5431

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

e.g. 023J5431

Comment saisir un numéro de lot (COO)

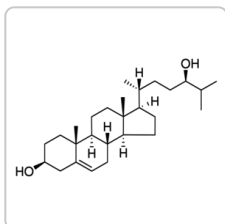
Rechercher

Plus De Documents

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[FDS](#)

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



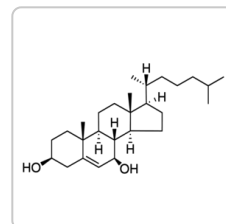
Avanti

700071P

24(R)-hydroxycholesterol

cholest-5-ene-3 β ,24(R)-diol, powder

[Consulter le prix et la disponibilité](#)



Avanti

700035P

7 β -hydroxycholesterol

cholest-5-en-3 β ,7 β -diol, powder

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

Increased 27-hydroxycholesterol plasma level in men with low high density lipoprotein-cholesterol may circumvent their reduced cell cholesterol efflux rate.

Valéria S Nunes et al.

Clinica chimica acta; international journal of clinical chemistry, 433, 169-173 (2014-03-25)

HDL is considered the most important mechanism for the excretion of intracellular cholesterol. The liver is the only organ capable to metabolize cholesterol into bile acid. The enzymatic conversion of cholesterol to bile acid is dependent on the cytochrome P450

Relationships of coronary heart disease with 27-hydroxycholesterol, low-density lipoprotein cholesterol, and menopausal hormone therapy.

Jacques E Rossouw et al.

Circulation, 126(13), 1577-1586 (2012-08-31)

Menopausal hormone therapy (MHT) increases the risk of coronary heart disease (CHD) in older women with elevated low-density lipoprotein (LDLC) levels. The endogenous estrogen receptor antagonist 27-hydroxycholesterol (27OHC) is correlated with LDLC levels and may block the beneficial effects of

Plasma levels of 27-hydroxycholesterol in humans and mice with monogenic disturbances of high density lipoprotein metabolism.

Ratna Karuna et al.

Atherosclerosis, 214(2), 448-455 (2010-12-07)

Secretion of 27-hydroxycholesterol (27OHC) from macrophages is considered as an alternative to HDL-mediated reverse transport of excess cholesterol. We investigated 27OHC-concentrations in plasma of humans and mice with monogenic disorders of HDL metabolism. As compared to family controls mutations in

27-Hydroxycholesterol and 7alpha-hydroxycholesterol trigger a sequence of events leading to migration of CCR5-expressing Th1 lymphocytes.

Sun-Mi Kim et al.

Toxicology and applied pharmacology, 274(3), 462-470 (2013-12-29)

Th1 lymphocytes are predominant in atherosclerotic lesions. However, mechanisms involved in the Th1 predominance are unknown. We have investigated the possibility of Th1 lymphocyte recruitment in a cholesterol-rich milieu. A high cholesterol diet resulted in enhanced expression of CCR5 ligands

27-hydroxycholesterol induces production of tumor necrosis factor-alpha from macrophages.

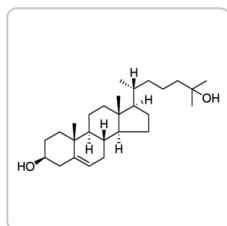
Sun-Mi Kim et al.

Biochemical and biophysical research communications, 430(2), 454-459 (2012-12-19)

Enhanced production of TNF- α from macrophages promotes development and instability of atherosclerotic plaques, but involvement of lipid component in TNF- α production has not been clarified in atherosclerosis. We attempted to determine whether cholesterol oxidation products (oxysterols) could modify TNF- α production.

[Afficher tous les articles scientifiques apparentés](#)

PRODUITS CONSULTÉS RÉCEMMENT



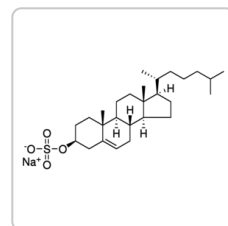
Avanti

700019P

25-hydroxycholesterol

cholest-5-ene-3 β ,25-diol, powder

[Consulter le prix et la disponibilité](#)



Avanti

700016P

cholesterol sulfate

cholesterol 3-sulfate (sodium salt), powder

[Consulter le prix et la disponibilité](#)

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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