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D6140 **Sigma-Aldrich.**

Demeclocycline hydrochloride

★★★★★ (0)

powder or crystals

Synonyme(s):

7-Chloro-6-demethyltetracycline hydrochloride, Demethylchlorotetracycline hydrochloride

Empirical Formula (Hill Notation):

C₂₁H₂₁ClN₂O₈ · HCl

Numéro CAS: **64-73-3**

Poids moléculaire: 501.31

Beilstein: 3849198

Numéro EC: **200-592-2**

Numéro MDL: **MFCD00082371**

ID de substance PubChem: **24278380**

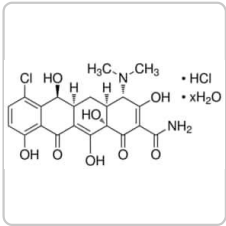
NACRES: NA.75

Référence	Conditionnement	Disponibilité	Prix	Quantité
D6140-1G	1 G	Only 3 left in stock (more on the way) Détails...	232,00 €	- +

[Demander une commande en gros](#)

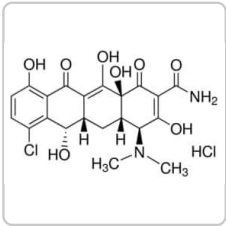
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PRODUITS RECOMMANDÉS



Supelco
46161
Demeclocycline hydrochloride hydrate
VETRANAL[®], analytical standard

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D0300000
Demeclocycline hydrochloride
European Pharmacopoeia (EP) Reference Standard

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PROPRIÉTÉS

Essai/Dosage	≥92% (HPLC)
Niveau de qualité	200
Forme	powder or crystals
technique(s)	cell culture mammalian: suitable
Solubilité	soluble (1 mg/mL of Demeclocycline Hydrochloride in 0.01 N hydrochloric acid)
Spectre d'activité de l'antibiotique	Gram-negative bacteria Gram-positive bacteria
Mode d'action	protein synthesis interferes
Temp. de stockage	–20°C

SMILES string	<chem>Cl[H].[H][C@]12C[C@@]3([H])[C@H](N(C)C)C(O)=C(C(N)=O)C(=O)[C@@]3(O)C(O)=C1C(=O)c4c(O)ccc(Cl)c4[C@H]2O</chem>
InChI	1S/C21H21ClN2O8.ClH/c1-24(2)14-7-5-6-10(16(27)12-9(25)4-3-8(22)11(12)15(6)26)18(29)21(7,32)19(30)13(17(14)28)20(23)31;/h3-4,6-7,14-15,25-26,28-29,32H,5H2,1-2H3,(H2,23,31);1H/t6-,7-,14-,15-,21-;/m0./s1
InChI key	GVSJQNRGSCOSNJ-KBHRXELFSA-N

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

Catégories apparentées

[Antibiotics](#)

[Growth Factors and Cytokines](#)

DESCRIPTION

Description générale

Chemical structure: tetracycline

Actions biochimiques/physiologiques

Because it is excreted more slowly than tetracycline, it maintains effective blood levels for longer periods of time.

Demeclocycline hydrochloride is a tetracycline antibiotic derived from a strain of *Streptomyces aureofaciens*. DMC protects neurons from glutamate induced toxicity by suppressing calpain I and II activities.

Used to study mechanisms of bacterial protein synthesis inhibition at the level of the 30S subunit and aminoacyl-tRNA A-site binding.

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS07,GHS08

Mention d'avertissement

Warning

Mentions de danger

H302 + H312 + H332 - H315 -
H319 - H335 - H341

Conseils de prudence

P280 - P301 + P312 - P302 +
P352 + P312 - P304 + P340 +
P312 - P305 + P351 + P338 -
P308 + P313

Classification des risques

Acute Tox. 4 Dermal - Acute
Tox. 4 Inhalation - Acute Tox.
4 Oral - Eye Irrit. 2 - Muta. 2 -
Skin Irrit. 2 - STOT SE 3

Organes cibles

Respiratory system

Code de la classe de stockage

11 - Combustible Solids

WGK

WGK 2

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

Équipement de protection individuelle

dust mask type N95 (US),
Eyeshields, Faceshields,
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)

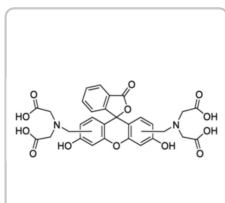
Rechercher

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LES CLIENTS ONT ÉGALEMENT CONSULTÉ

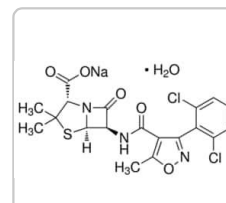


Sigma-Aldrich

C0875

Calcein

Used for the fluorometric determination of calcium and EDTA titration of calcium in the presence of magnesium.



Sigma-Aldrich

D9016

Dicloxacillin sodium salt monohydrate

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QUESTIONS FRÉQUEMMENT POSÉES (FAQ)

How does the storage temperature relate to shipping conditions?

The storage conditions that a Sigma-Aldrich catalog and label recommend for products are deliberately conservative. For many products, long-term storage at low temperatures will increase the time during which they are expected to remain in specification and therefore are labeled accordingly. Where short-term storage, shipping time frame, or exposure to conditions other than those recommended for long-term storage will not affect product quality, Sigma-Aldrich will ship at ambient temperature. The products sensitive to short-term exposure to conditions other than their recommended long-term storage are shipped on wet or dry ice. Ambient temperature shipping helps to control shipping costs for our customers. At any time, our customers can request wet- or dry-ice shipment, but the special handling is at customer expense if our product history indicates that the product is stable for regular shipment. See [Shipping and Storage](#) for more information.

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.

What is the solubility of Product D6140, Demeclocycline hydrochloride?

Product D6140, Demeclocycline hydrochloride, has been found to be soluble in water at 20mg/ml, with heat as needed. This will yield a clear yellow to very dark green-yellow solution.

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

Ask a Scientist [here](#).

ARTICLES REVUS PAR DES PAIRS

Perivascular osteoprogenitors are associated with transcortical channels of long bones.

Sierra H Root et al.

Stem cells (Dayton, Ohio), 38(6), 769-781 (2020-02-14)

Bone remodeling and regeneration are dependent on resident stem/progenitor cells with the ability to replenish mature osteoblasts and repair the skeleton. Using lineage tracing approaches, we identified a population of Dmp1+ cells that reside within cortical bone and are distinct

Breast cancer bone metastases are attenuated in a Tgif1-deficient bone microenvironment.

Marie-Therese Haider et al.

Breast cancer research : BCR, 22(1), 34-34 (2020-04-11)

Osteoclast activation is a hallmark of breast cancer-induced bone disease while little is known about the role of osteoblasts in this process. Recently, we identified the homeodomain protein TG-interacting factor-1 (Tgif1) as a crucial regulator of osteoblast function. In this

The effect of calcium hydroxide on the steroid component of Ledermix and Odontopaste.

M Athanassiadis et al.

International endodontic journal, 44(12), 1162-1169 (2011-09-10)

To investigate the chemical interaction of calcium hydroxide with the corticosteroid triamcinolone acetonide in Ledermix Paste and in Odontopaste, a new steroid/antibiotic paste. Validated methods were developed to analyse the interaction of calcium hydroxide in two forms, Pulpdent Paste and

An in vitro study of the antimicrobial activity of some endodontic medicaments against *Enterococcus faecalis* biofilms.

B Athanassiadis et al.

Australian dental journal, 55(2), 150-155 (2010-07-08)

The in vitro antimicrobial activity of a series of endodontic medicaments and their bases against biofilms of *Enterococcus faecalis* was investigated. The medicaments tested were Pulpdent paste, Ledermix paste, a 50:50 Ledermix and Pulpdent mixture, and a replica of Ledermix

Laser fluorescence assessment of the root canal using plain and conical optical fibers.

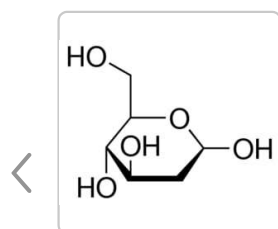
Quan V Ho et al.

Journal of endodontics, 36(1), 119-122 (2009-12-17)

Traditional culture-based techniques for assessing infection of the root canal system are difficult to use and prone to error. Real-time assessment of the microbial status of the root canal system using laser fluorescence would help address these limitations. This study

[Afficher tous les articles scientifiques apparentés](#)

PRODUITS CONSULTÉS RÉCEMMENT



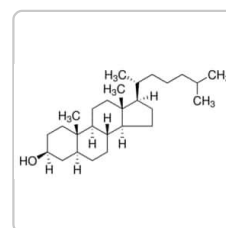
Sigma-Aldrich

D6134

2-Deoxy-D-glucose

≥99% (GC), crystalline

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Sigma-Aldrich

D6128

5α-Cholestan-3β-ol

≥95%

[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..

[Contacter notre Service technique](#)

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