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E6376 **Sigma-Aldrich.**

Erythromycin

★★★★★ (0)

potency: ≥850 µg per mg

Empirical Formula (Hill Notation):

C₃₇H₆₇NO₁₃

Numéro CAS: **114-07-8**

Beilstein: 75279

Numéro MDL: **MFCD00084654**

NACRES: NA.76

Poids moléculaire: 733.93

Numéro EC: **204-040-1**

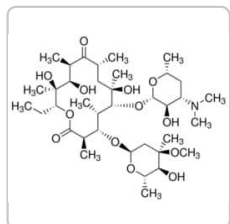
ID de substance PubChem: **24894626**

Référence	Conditionnement	Disponibilité	Prix	Quantité
E6376-25G	25 G	Only 5 left in stock (more on the way) Détails...	234,00 €	- +
E6376-100G	100 G	Date d'expédition estimée le 10 octobre 2022 Détails...	777,00 €	- +

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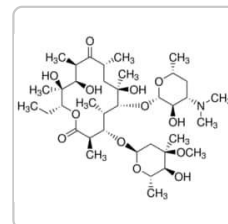
PRODUITS RECOMMANDÉS



Sigma-Aldrich

E5389**Erythromycin**

BioReagent, suitable for cell culture

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Sigma-Aldrich

E0774**Erythromycin**

meets USP testing specifications

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PROPRIÉTÉS

Source biologique	<i>Streptomyces erythreus</i>
Niveau de qualité	200
Forme	powder
Puissance	≥850 µg per mg
Couleur	white
Solubilité	ethanol: 50 mg/mL, clear to slightly hazy, colorless to faintly yellow
Spectre d'activité de l'antibiotique	Gram-negative bacteria Gram-positive bacteria

Mode d'action

protein synthesis | interferes

SMILES stringCC[C@H]1OC(=O)[C@H](C)[C@@H](O[C@H]2C[C@@](C)(OC)[C@@H](O)[C@H](C)O2)[C@H](C)[C@@H](O[C@@H]3O[C@H](C)C[C@@H]([C@H]3O)N(C)C)[C@](C)(O)C[C@@H](C)C(=O)[C@H](C)[C@@H](O)[C@]1(C)O**InChI**

1S/C37H67NO13/c1-14-25-37(10,45)30(41)20(4)27(39)18(2)16-35(8,44)32(51-34-28(40)24(38(11)12)15-19(3)47-34)21(5)29(22(6)33(43)49-25)50-26-17-36(9,46-13)31(42)23(7)48-26/h18-26,28-32,34,40-42,44-45H,14-17H2,1-13H3/t18-,19-,20+,21+,22-,23+,24+,25-,26+,28-,29+,30-,31+,32-,34+,35-,36-,37-/m1/s1

InChI key

ULGZDMOVFRHVEP-RWJQBGP GSA-N

Gene Informationhuman ... [ABCB1\(5243\)](#) , [CYP3A4\(1576\)](#) , [MLNR\(2862\)](#)
mouse ... [Abcb1a\(18671\)](#) , [Abcb1b\(18669\)](#)Vous recherchez des produits similaires ? Visitez [Guide de comparaison des produits](#)**Catégories apparentées**[Antibiotics](#)**DESCRIPTION****Description générale**

Chemical structure: macrolide

Conditionnement

25, 100 g in poly bottle

Application

Application

Erythromycin is an antibiotic produced by growth of certain strains of *Streptomyces erythreus*. This product is composed largely of erythromycin A with small amounts of erythromycins B and C and is recommended for concentration at 100 mg/L. Concentrations between 50 and 200 mg/L have also proven effective in controlling bacterial growth. Erythromycin has been used as a motilin receptor agonist, to block respiratory glycoconjugate secretion in human airways *in vitro*, and for selecting plasmid-cured and recombinant *lactococcus lactis* MG1363 strains.

Actions biochimiques/physiologiques

Mode of Action: Erythromycin acts by inhibiting elongation at the transpeptidation step, specifically aminoacyl translocation from the A-site to P-site by binding to the 50s subunit of the bacterial 70s rRNA complex.

Antimicrobial Spectrum: This product acts against both gram-negative and gram-positive bacteria.

Attention

This product is stable in solution at 37°C for 3 days. Stock solutions should be stored at 2-8°C.

Notes préparatoires

This product is soluble in water at 2 mg/mL, with a 0.067% solution in water yielding a pH of 8.0-10.5. It is also soluble in ethanol at 50 mg/mL, yielding a clear, colorless to faint yellow solution. It is freely soluble in alcohol, acetone, chloroform, acetonitrile and ethyl acetate but forms salts with acids. All solutions should be protected from light.

INFORMATIONS SUR LA SÉCURITÉ

**Code de la classe de
stockage**

WGK
WGK 3

Flash Point(F)
Not applicable

Point d'éclair C
Not applicable

11 - Combustible Solids

Équipement de protection individuelle

Eyeshields, Gloves, type N95 (US)

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

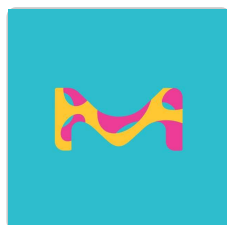
Comment saisir un numéro de lot (COO)

Rechercher

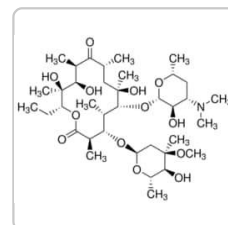
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LES CLIENTS ONT ÉGALEMENT CONSULTÉ

**BP488****Erythromycin stearate**

British Pharmacopoeia (BP) Reference Standard

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Sigma-Aldrich

E7904**Erythromycin**

Biotechnology Performance Certified

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ARTICLES REVUS PAR DES PAIRS

Erythromycin for Gastric Emptying in Patients Undergoing General Anesthesia for Emergency Surgery: A Randomized Clinical Trial.

Christoph Czarnetzki et al.*JAMA surgery, 150(8), 730-737 (2015-06-18)*

Patients undergoing emergency procedures under general anesthesia have impaired gastric emptying and are at high risk for aspiration of gastric contents. Erythromycin has strong gastric prokinetic properties. To evaluate the efficacy of erythromycin lactobionate in gastric emptying in patients undergoing

Semimechanistic pharmacokinetic/pharmacodynamic model for assessment of activity of antibacterial agents from time-kill curve experiments.

Elisabet I Nielsen et al.

Antimicrobial agents and chemotherapy, 51(1), 128-136 (2006-10-25)

Dosing of antibacterial agents is generally based on point estimates of the effect, even though bacteria exposed to antibiotics show complex kinetic behaviors. The use of the whole time course of the observed effects would be more advantageous. The aim

Identification and characterization of the multidrug resistance gene cfr in a Pantone-Valentine leukocidin-positive sequence type 8 methicillin-resistant *Staphylococcus aureus* IVa (USA300) isolate.

Anna C Shore et al.

Antimicrobial agents and chemotherapy, 54(12), 4978-4984 (2010-10-06)

The staphylococcal cfr gene mediates resistance to phenicols, lincosamides, oxazolidinones, pleuromutilins, and streptogramin A, a phenotype that has been termed PhLOPS(A). The cfr gene has mainly been associated with coagulase-negative staphylococcal isolates from animals, and only a few cfr-positive methicillin-resistant

Design and synthesis of 2-arylbenzimidazoles and evaluation of their inhibitory effect against *Chlamydia pneumoniae*.

Leena Keurulainen et al.

Journal of medicinal chemistry, 53(21), 7664-7674 (2010-10-12)

Chlamydia pneumoniae is an intracellular bacterium that responds poorly to antibiotic treatment. Insufficient antibiotic usage leads to chronic infection, which is linked to disease processes of asthma, atherosclerosis, and Alzheimer's disease. The *Chlamydia* research lacks genetic tools exploited by other

Synergistic interaction between phenothiazines and antimicrobial agents against *Burkholderia pseudomallei*.

Ying Ying Chan et al.

Antimicrobial agents and chemotherapy, 51(2), 623-630 (2006-12-06)

The gram-negative soil bacillus *Burkholderia pseudomallei* is the causative agent of melioidosis, a severe and potentially fatal septicemic disease that is endemic to Southeast Asia and northern Australia. Its intrinsic resistance to many antibiotics is attributed mainly to the presence

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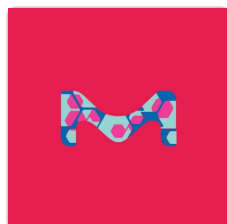
PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Inhibition of Protein Synthesis by Antibiotics

Protein synthesis is a complex, multi-step process involving many enzymes as well as conformational alignment. However, the majority of antibiotics that block bacterial protein synthesis interfere with the processes at the 30S subunit or 50S subunit of the 70S bacterial ribosome.

PRODUITS CONSULTÉS RÉCEMMENT

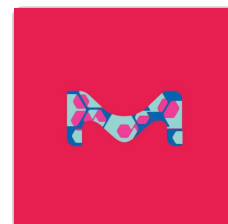


Sigma-Aldrich

E6287

Pectinase from *Aspergillus aculeatus*

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Sigma-Aldrich

E6267

Earle's Balanced Salts

With sodium bicarbonate, without calcium chloride and magnesium sulfate, liquid, sterile-filtered, suitable for c...

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