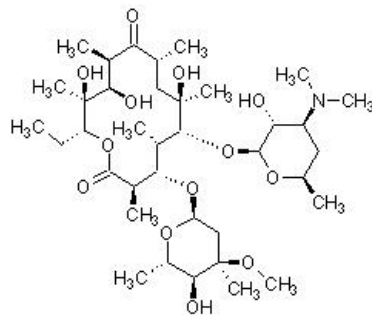


Erythromycin, Macrolide antibiotic ab141205

1 Image

Overview

Product name	Erythromycin, Macrolide antibiotic
Description	Macrolide antibiotic
Biological description	Macrolide antibiotic. Inhibits cytochrome p450 3A4 and P-glycoprotein. Binds the 50S ribosomal subunit and inhibits protein synthesis in Gram-positive and Gram-negative bacteria.
CAS Number	114-07-8
Chemical structure	



Properties

Chemical name	(3 <i>R</i> ,4 <i>S</i> ,5 <i>S</i> ,6 <i>R</i> ,7 <i>R</i> ,9 <i>R</i> ,11 <i>R</i> ,12 <i>R</i> ,13 <i>S</i> ,14 <i>R</i>)-6- {[(2 <i>S</i> ,3 <i>R</i> ,4 <i>S</i> ,6 <i>R</i>)-4-(Dimethylamino)-3-hydroxy-6-methyltetrahydro-2 <i>H</i> -pyran-2-yl]oxy}- 14-ethyl-7, 12, 13-trihydroxy-4-[[[(2 <i>R</i> ,4 <i>R</i> ,5 <i>S</i> ,6 <i>S</i>)- 5-hydroxy-4-methoxy-4,6-dimethyltetrahydro-2 <i>H</i> -pyran-2-yl]oxy]- 3,5,7,9,11,13-hexamethyl-1-oxacyclotetradecane-2,10-dione (for erythromycin A)
Molecular weight	733.94
Molecular formula	C ₃₇ H ₆₇ NO ₁₃
PubChem identifier	16212992
Storage instructions	Store at +4°C. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 100 mM and in ethanol to 100 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Need more advice on solubility, usage and handling? Please visit our frequently asked

[questions \(FAQ\) page](#) for more details.

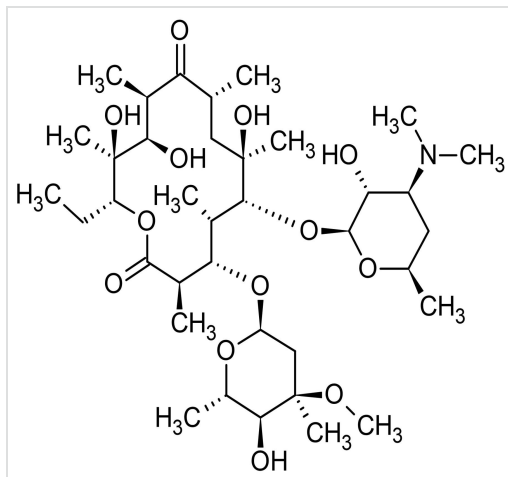
SMILES

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CN(C)[C@H]3C[C@@H](C)O[C@@H](O[C@@H]2[C@@H](C)[C@H](O[C@H]1C[C@@](C)(OC)[C@@H](O)[C@H](C)O1)[C@@H](C)C(=O)O[C@H](CC)[C@@](C)(O)[C@H](O)[C@@H](C)C(=O)[C@H](C)C[C@@]2(C)O)[C@@H]3O
```

Source

Synthetic

Images



2D chemical structure image of ab141205, Erythromycin, Macrolide antibiotic

Chemical Structure - Erythromycin, Macrolide antibiotic (ab141205)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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