

Product Information

Telithromycin, Purity $\geq 98\%$

Cat. No.: X24-09-YM1111

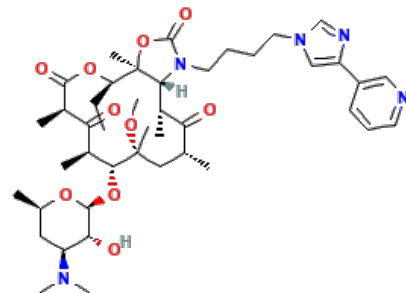
Size: 5 mg; 25 mg; 50 mg; 100 mg

CAS Number: 191114-48-4

Compound CID: 3002190

Synonym: 191114-48-4; Telithromycin; Ketek; Levviax; HMR 3647; HMR-3647;

(1*S*,2*R*,5*R*,7*R*,8*R*,9*R*,11*R*,13*R*,14*R*)-8-[(2*S*,3*R*,4*S*,6*R*)-4-(Dimethylamino)-3-hydroxy-6-methyloxan-2-yl]oxy-2-ethyl-9-methoxy-1,5,7,9,11,13-hexamethyl-15-[4-(4-pyridin-3-ylimidazol-1-yl)butyl]-3,17-dioxa-15-azabicyclo[12.3.0]heptadecane-4,6,12,16-tetrone



This product is for research use only and is not intended for diagnostic use.

Product Information

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| Description | Telithromycin is a ketolide antibiotic compound. The molecular weight of the compound is 812, and its molecular formula is C ₄₃ H ₆₅ N ₅ O ₁₀ . |
| Molecular Weight | 812 |
| Molecular Formula | C ₄₃ H ₆₅ N ₅ O ₁₀ |
| IUPAC Name | (1 <i>S</i> ,2 <i>R</i> ,5 <i>R</i> ,7 <i>R</i> ,8 <i>R</i> ,9 <i>R</i> ,11 <i>R</i> ,13 <i>R</i> ,14 <i>R</i>)-8-[(2 <i>S</i> ,3 <i>R</i> ,4 <i>S</i> ,6 <i>R</i>)-4-(Dimethylamino)-3-hydroxy-6-methyloxan-2-yl]oxy-2-ethyl-9-methoxy-1,5,7,9,11,13-hexamethyl-15-[4-(4-pyridin-3-ylimidazol-1-yl)butyl]-3,17-dioxa-15-azabicyclo[12.3.0]heptadecane-4,6,12,16-tetrone |
| InChI | InChI=1S/C43H65N5O10/c1-12-33-43(8)37(48(41(53)58-43)19-14-13-18-47-23-31(45-24-47)30-16-15-17-44-22-30)27(4)34(49)25(2)21-42(7,54-11)38(28(5)35(50)29(6)39(52)56-33)57-40-36(51)32(46(9)10)20-26(3)55-40/h15-17,22-29,32-33,36-38,40,51H,12-14,18-21H2,1-11H3/t25-,26-,27+,28+,29-,32+,33-,36-,37-,38-,40+,42-,43-/m1/s1 |
| InChI Key | LJVAJPDWBABPEJ-PNUFFHFMSA-N |
| Canonical SMILES | CCC1C2(C(C(C(=O)C(CC(C(C(C(=O)C(C(=O)O1)C)C)OC3C(C(CC(O3)C)N(C)C)O)(C)OC)C)C)N(C(=O)O2)CCCCN4C=C(N=C4)C5=CN=CC=C5)C |
| Form | Lyophilized powder |
| Purity | $\geq 98\%$ |
| Impurities | Free from inappropriate visible particulates, foreign matter, discoloration, or other defects. |
| Identity | Confirmed by NMR/HPLC/MS. |



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| Stability | In its lyophilized form, the chemical remains stable for 36 months. |
| Quality Level | Research grade |
| Applications | Telithromycin can be used for its ability to inhibit bacteria that are resistant to macrolides and to provide a potent bactericidal effect. |
| Storage | Store at -20°C, and keep desiccated. |
