



Formula: C<sub>42</sub>H<sub>69</sub>NO<sub>15</sub>

MW: 828.01

CAS: 16846-24-5

TNP NUMBER: TNP00588

MDL NUMBER: MFCD00210320

IUPAC: 6-{6-[(1S,13S,2R,3R,7R,14R,16R)-3-acetyloxy-13-hydroxy-2-methoxy-7,14-dimethyl-5-oxo-16-(2-oxoethyl)-6-oxacyclohexadeca-9,11-dienyloxy]}(3S,2R,4R,5R,6R)-4-(dimethylamino)-5-hydroxy-2-methyl(2H-3,4,5,6-tetrahydropyran-3-yloxy)}(2S,3S,4R,6R)-4-hydroxy-2,4

Smiles:

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O1[C@H]([C@@H]([C@@H](N(C)C)[C@@H]([C@H]1C)O[C@H]1C[C@](O)(C)[C@H]([C@@H](O1)C)OC(=O)CC(C)C)O)O[C@@H]1[C@H]([C@@H](CC(O[C@@H](CC=CC=C[C@@H]([C@@H](C[C@@H]1CC=O)C)O)C)=O)OC(=O)C)OC
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Microlide antibiotic produced by *Streptomyces narbonensis* var. *josamyceticus*

THERAPEUTIC CATEGORY: Antibacterial

SOURCE: Macrolide antibiotic, produced by *Streptomyces narbonensis* var. *josamyceticus* nov. var.

ACCEPTORS: 15

DONORS: 3

ROTATION BONDS: 5

N+O: 16

Chiral Centers: 16

LogP: 3.13

LogS: -6.68

LIPINSKI: 2

Synonyms:

antibioticyl-704a3;kitasamycina3;leucomycin,3-acetate4(supb)-(3-methylbutanoate);turimycina  
5;JOSAMYCIN;LEUCOMYCIN V,3-AC-ETA 4B-(3-METHYLBUTANOATE);LEUCOMYCIN  
V,3-ACETA 4BETA-(3-METHYL BUTANOATE);LEUCOMYCIN A3

CAS:16846-24-5

MF:C42H69NO15

MW:827.99

EINECS:240-871-6

Product Categories:Antibiotic Explorer;A - KAntibiotics;Antibacterial;Antibiotics A to;Antibiotics  
G-MAntibiotics;Chemical Structure Class;Interferes with Protein  
SynthesisAntibiotics;Macrolides;Mechanism of Action;Spectrum of Activity JOSAMYCIN

Chemical Properties: storage temp. 2-8C Merck 13,5286

Safety Information: WGK Germany 2 RTECS OH4725810 F 10 JOSAMYCIN

Usage And Synthesis: JOSAMYCIN

