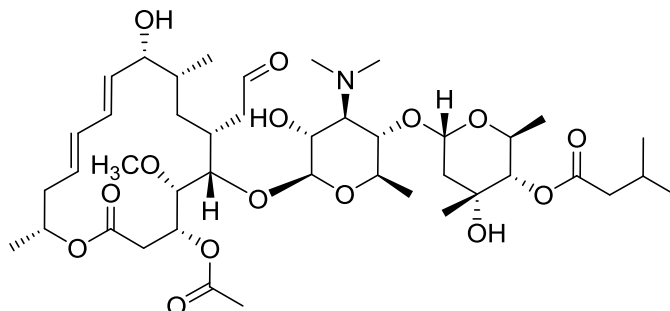


Josamycin

Code No.: **BIA-J1788**

Pack sizes: **1 mg, 5 mg**



Synonyms : Leucomycin A3, Oxacyclohexadecane, leucomycin V deriv., Antibiotic YL 704A3, EN 141, losalide, Jomybel, Josacine, Josamina, Kitasamycin A3, Turimycin A5, Vilprafen, Wilprafen

Specifications

CAS #	: 16846-24-5
Molecular Formula	: C₄₂H₆₉NO₁₅
Molecular Weight	: 828.0
Source	: <i>Streptomyces kitatoensis</i>
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Josamycin (leucomycin A3) is a member of the leucomycin complex, a family of closely-related macrocyclic lactone antibiotics produced by *Streptomyces kitatoensis*, discovered in 1953 by Omura and colleagues at The Kitasato Institute, Japan. Leucomycin complex is used as an animal health product for control of Gram-positive bacteria, Gram-negative cocci, leptospira and mycoplasma. Josamycin itself was not isolated until 1966. Josamycin inhibits influenza A virus infection and disease progression.

References

1. Leucomycin A3, a new antibiotic from streptomyces kitatoensis. Hata T. et al., Antimicrob. Agents Chemother. 1966, 6, 63.
2. Leucomycin, a new antibiotic. Hata T. et al., J. Antibiot. Ser. A 1953, 6, 87.
3. Leucomycin A3, a 16-membered macrolide antibiotic, inhibits influenza A virus infection and disease progression. Sugamata R. et al., J. Antibiot. 2014, 67, 213.