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## Product Data Sheet

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Product Name: Pristinamycin IA  
 Cat. No.: GC36968

### Chemical Properties

Cas. No. 3131-03-1

SMILES O=C(C(N(C(C(CCC1)N1C(C(NC2=O)CC)=O)=O)C)CC3=CC=C(N(C)C)C=C3)N(CCC4=O)C(C4)C(NC(C5=CC=CC=C5)C(OC(C2NC(C(N=

Formula C<sub>45</sub>H<sub>54</sub>N<sub>8</sub>O<sub>10</sub>

M.Wt

866.96

Solubility DMSO: 33.33 mg/mL (38.44 mM)

Storage

Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be tips several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.  
 Condition

Structure

### Background

Streptogramin B is a macrolide antibiotic.<sup>1</sup> It inhibits the growth of *Clostridium*, *Peptostreptococcus*, and *Propionibacterium* bacterial species (MIC<sub>90s</sub> = 2, 0.5, and 8 µg/ml, respectively).<sup>2</sup> Streptogramin B inhibits protein synthesis by interacting with the 50S ribosome.<sup>1</sup> Resistance to streptogramin B is conferred by erythromycin ribosome methylation (*erm*) genes, which code for methylases that methylate the 50S ribosome, interfering with streptogramin B binding.

1. Roberts, M.C., Sutcliffe, J., Courvalin, P., et al. Nomenclature for macrolide and macrolide-lincosamide-streptogramin B resistance determinants. *Antimicrob. Agents Chemother.* 43(12):2823-2830(1999)  
 2. Laforest, H., Fourgeaud, M., Richet, H., et al. Comparative in vitro activities of pristinamycin, its components, and other antimicrobial agents against anaerobic bacteria. *Antimicrob. Agents Chemother.* 32(7):1094-1096(1988)

**Caution: Product has not been fully validated for medical applications. For research use only.**

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