
Product Data Sheet

Product Name: Afabycin (Debio 1450)

Cat. No.: GC32295

Chemical Properties

Cas. No. 1518800-35-5

SMILES O=P(O)(O)OCN1C2=NC=C(/C=C/C(N(C)CC(OC3=CC=CC=C43)=C4C)=O)C=C2CCC1=O

Formula	C ₂₃ H ₂₄ N ₃ O ₇ P	M.Wt	485.43
---------	---	------	--------

Solubility	Soluble in DMSO	Storage	Store at -20°C
------------	-----------------	---------	----------------

General tips 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 stored below -20°C for several months.

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

Structure **Background**

Afabycin (Debio 1450) is the prodrug of Debio1452, specifically targeting staphylococci without significant activity against other Gram-positive or Gram-negative species. Debio1452 is an inhibitor FabI, an enzyme critical to fatty acid biosynthesis in staphylococci.

Afabycin (Debio1450) is the prodrug of Debio1452, specifically targeting staphylococci without significant activity against other Gram-positive or Gram-negative species. Debio1452 inhibits FabI, an enzyme critical to fatty acid biosynthesis in staphylococci. Debio1452 is highly active against staphylococci isolates, with MIC50 and MIC90 values of 0.015 µg/mL and 0.12 µg/mL, respectively. Debio1452 also inhibits *S. aureus*, with MICs of ≤0.12 µg/mL and MIC50 and MIC90 values of 0.004 µg/mL and 0.008 µg/mL, respectively[1].

[1]. Flamm RK, et al. Activity of Debio1452, a FabI inhibitor with potent activity against *Staphylococcus aureus* and coagulase-negative *Staphylococcus* spp., including multidrug-resistant strains. *Antimicrob Agents Chemother.* 2015 May;59(5):2583-7.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA
