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**Product Data Sheet**

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Product Name: DuP 105  
Cat. No.: GC32267

**Chemical Properties**

Cas. No. 96800-41-8

SMILES CC(NC[C@H]1CN(C2=CC=C(S(C)=O)C=C2)C(O1)=O)=O

Formula C<sub>13</sub>H<sub>16</sub>N<sub>2</sub>O<sub>4</sub>S M.Wt 296.34

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

**Protocol**

**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

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### **Animal experiment:**

The mice are made neutropenic by the intraperitoneal administration of 100 mg of cyclophosphamide per kg on days -5, -3, and 0 (the day of infection). The extent of immunosuppression is assessed by using a standard hematological technique to determine leukocyte counts. In all experiments, the leukocyte count in the cyclophosphamide-treated mice is less than 15% of that in nontreated mice from day 0 through day 7. On day 0, the mice are injected intraperitoneally with a bacterial inoculum suspended in 0.2 mL of saline containing 5% gastric porcine mucin. This inoculum ( $2 \times 10^4$  CFU) is fivefold that required to kill all the nontreated immunosuppressed mice in 48 h. Graded doses of the test compounds are administered by the subcutaneous or oral route at 1 and 4 h after infection. In parallel with the immunosuppressed mice, groups of nonimmunosuppressed mice are infected, and treated with the antibacterial drugs. The number of survivors on day 7 in each group is used to calculate the ED50 values of the test compounds.

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### References:

- [1]. Slee AM, et al. Oxazolidinones, a new class of synthetic antibacterial agents: in vitro and in vivo activities of DuP 105 and DuP 721. Antimicrob Agents Chemother. 1987 Nov;31(11):1791-7.
- [2]. Barry AL, et al. In vitro evaluation of DuP 105 and DuP 721, two new oxazolidinone antimicrobial agents. Antimicrob Agents Chemother. 1988 Jan;32(1):150-2.

### Background

DuP 105 is an orally active oxazolidinone, a new class of synthetic antimicrobial agent with activity against gram-positive bacteria.

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DuP 105 shows inhibitory activities against staphylococcal isolates and *B. fragilis* isolates with MIC90s of 4 to 16 µg/mL and 16 µg/mL[1]. DuP 105 MICs for 50% of the 216 gram-positive isolates tested (MIC50s) range from 4.0 to 16 µg/mL[2].

DuP 105 administered by either the oral or the parenteral route is protective against staphylococcal and streptococcal infections in mice with the 50% effective doses of 9 to 23 mg/kg[1].

[1]. Slee AM, et al. Oxazolidinones, a new class of synthetic antibacterial agents: in vitro and in vivo activities of DuP 105 and DuP 721. *Antimicrob Agents Chemother.* 1987 Nov;31(11):1791-7. [2]. Barry AL, et al. In vitro evaluation of DuP 105 and DuP 721, two new oxazolidinone antimicrobial agents. *Antimicrob Agents Chemother.* 1988 Jan;32(1):150-2.

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