



LKT Laboratories, Inc.

## Pipemidic Acid

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### Product Information

**Product ID** P3461

**CAS No.** 51940-44-4

**Chemical Name** 8-ethyl-5-oxo-2-piperazin-1-ylpyrido[2,3-d]pyrimidine-6-carboxylic acid

**Synonym**

**Formula** C<sub>14</sub>H<sub>17</sub>N<sub>5</sub>O<sub>3</sub>

**Formula Wt.** 303.32

**Melting Point**

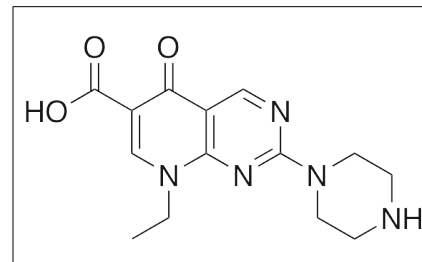
**Purity** ≥98%

**Solubility**

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Pipemidic acid is a pyridopyrimidine antibiotic that inhibits bacterial DNA gyrase; it exhibits antibacterial activity. Pipemidic acid also inhibits ATP-sensitive K<sup>+</sup> channels, inducing insulin release in vitro, suggesting potential a potential link to hypoglycemia. High doses of pipemidic acid induce cartilage toxicity (arthropathy) in neonatal mice.



### Pricing and Availability

*Bulk quantities available upon request*

Product ID	Size	List Price
P3461	1 g	\$40.50
P3461	10 g	\$69.10
P3461	100 g	\$432.60

**References** Aubry A, Pan XS, Fisher LM, et al. Mycobacterium tuberculosis DNA gyrase: interaction with quinolones and correlation with antimycobacterial drug activity. *Antimicrob Agents Chemother.* 2004 Apr;48(4):1281-8. PMID: 15047530.

Maeda N, Tamagawa T, Niki I, et al. Increase in insulin release from rat pancreatic islets by quinolone antibiotics. *Br J Pharmacol.* 1996 Jan;117(2):372-6. PMID: 8789393.

Linseman DA, Hampton LA, Branstetter DG. Quinolone-induced arthropathy in the neonatal mouse. Morphological analysis of articular lesions produced by pipemidic acid and ciprofloxacin. *Fundam Appl Toxicol.* 1995 Nov;28(1):59-64. PMID: 8566484.

Aoyama H, Sato K, Fujii T, et al. Purification of *Citrobacter freundii* DNA gyrase and inhibition by quinolones. *Antimicrob Agents Chemother.* 1988 Jan;32(1):104-9. PMID: 2831810.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.