Product Name: Pipemidic acid

Product Number: P009

CAS Number: 51940-44-4

Molecular Formula: C₁₄H₁₇N₅O₃

Molecular Weight: 303.32 g/mol

Form: Powder

Appearance: Yellowish-white, odorless, bitter-tasting crystals

Solubility:
- Acids and Bases: Soluble
- Alcohols: Very slightly soluble
- Water: Very slightly soluble

Source: Synthetic

Melting Point: 251-255 °C

Storage Conditions: 2-8 °C, protect from light

Description: Pipemidic acid is a pyridopyrimidine antibiotic similar in structure and mechanism to quinolone antibiotics. Pipemidic acid is slightly soluble in aqueous solution.

Mechanism of Action: Pipemidic acid targets bacterial DNA gyrase, an enzyme which reduces DNA strain during replication. Because DNA gyrase is required during DNA replication, subsequent DNA synthesis and ultimately cell division is inhibited.

Spectrum: Pipemidic acid is a broad spectrum antibiotic covering a wide range of susceptible bacteria.

Microbiology Applications: Pipemidic acid is commonly used in clinical in vitro microbiological antimicrobial susceptibility tests (panels, discs, and MIC strips) against gram positive and gram negative microbial isolates. Medical microbiologists use AST results to recommend antibiotic treatment options for infected patients. Representative MIC values include:

- *Escherichia coli* 1.56 µg/mL
- *Staphylococcus aureus* 6.25 µg/mL
- For a complete list of pipemidic acid MIC values, [click here](#).


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